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CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN--ETC F/G 5/1  
REAL ESTATE MODEL OF ACTIVITY PERFORMANCE (REMAP) USER'S MANUAL--ETC(U)  
JUL 78 C P ALTHEIDE

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TECHNICAL REPORT P-89

July 1978

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REAL ESTATE MODEL OF  
ACTIVITY PERFORMANCE  
(REMAP) USER'S MANUAL

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER CERL-TR-P-89	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) REAL ESTATE MODEL OF ACTIVITY PERFORMANCE (REMAP) USER'S MANUAL		5. TYPE OF REPORT & PERIOD COVERED FINAL
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) C. P. Altheide		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS CONSTRUCTION ENGINEERING RESEARCH LABORATORY P.O. Box 4005 Champaign, IL 61820		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS O&MA Program
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE July 1978
		13. NUMBER OF PAGES 206
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES Copies are obtainable from National Technical Information Service Springfield, VA 22151		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) REMAP performance centers real estate activity assignments		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The U.S. Army Construction Engineering Research Laboratory has developed a management model for analyzing alternative organizational locations of performance centers as Division, District, Field, or Project Offices for the Office of the Chief of Engineers, Directorate of Real Estate. This report describes the evaluation procedures and provides instructions for using the computer programs and performing the manual calculations required in the model, called the Real Estate Model of Activity Performance (REMAP). <span style="float: right;">702</span>		

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✓ The procedures involve computer and manual techniques for conducting comparative analyses of real estate activity assignments which are dependent on the locations--actual or proposed--of real estate activities and offices throughout CONUS. The analyses compare relative differences in dollar and manpower requirements for the performance and administration of real estate activities by various performance centers. REMAP uses computer-aided techniques to generate the annual workload of each performance center based on a selective assignment of activity locations to that center and to create visual displays of those assignments in the form of maps.

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## FOREWORD

This study was performed for the Office of the Chief of Engineers (OCE), Directorate of Real Estate, under the O&MA Program, Work Unit Title, "Real Estate Organization Study." The OCE Technical Monitor was Mr. E. W. Merli, (DAEN-REP). Additional guidance was provided by Mr. L. L. Pitchford, Jr., Chief, DAEN-REP.

The work was performed by the Facility Systems Division (FS), U.S. Army Construction Engineering Research Laboratory (CERL). The research was conducted under the supervision of Mr. C. P. Altheide, Principal Investigator. Mr. E. A. Lotz is Chief of FS.

COL J. E. Hays is Commander and Director of CERL, and Dr. L. R. Shaffer is Technical Director.

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## CONTENTS

	<u>Page</u>
DD FORM 1473	1
FOREWORD	3
LIST OF FIGURES AND TABLES	5
 1 INTRODUCTION.....	 7
Background	
Purpose	
General Introduction to REMAP	
Organization of Report	
Mode of Technology Transfer	
 2 REMAP METHODOLOGY.....	 10
 3 OPERATING PROCEDURES.....	 14
Basics of INTERCOM Usage	
Commands	
BEGIN Parameters	
PROFILE	
Output	
Performance Analysis	
Summary	
 4 DATA REQUIRED.....	 42
System Values	
MAPDATA Data	
Additional Instructions	
 5 CONCLUSIONS.....	 61
APPENDIX A: Division Codes	62
APPENDIX B: BEGIN Parameters	63
APPENDIX C: Complete Interactive Responses to Example Problems	65
APPENDIX D: Job Control Cards for Creating Activity Master Files	140
APPENDIX E: Samples of AMS5 and ALLS Files and Data Formats for Each; Output of MAPDATA, Called ANSM	180
APPENDIX F: Necessary Program Names	205
 DISTRIBUTION	

## FIGURES

<u>Number</u>		<u>Page</u>
1	Map of Inleasing Activity Locations in FY75	12
2	Map of Inleasing Activity Locations Reassigned to the Closest DAEN-RE Performance Center	13
3	EXDDF Permanent File	20
4	Sample Interactive Response for Acquisition (Post-Condemnation) Activity: Change Number of Trips From Default Value of 3 to 5	26
5	Example Printout for Type-1 Assignment for Inleasing Activity (OC-EXDDF and NC=EXDD2)	29
6	Linear Approximation of the FY75 Cost Data Points for Project Planning	45
7	Sample Portion of ILLS File	49
8	Sample Set of Punched Cards to Be Input	50
9	Job Control Cards to Merge New Cards With the Old File	51
10	Resulting ILLS File	52
11	Example of Using EDITOR	53
12	Second Example of Using EDITOR	54
13	Example of Sorting Techniques Using EDITOR	55
14	Resulting ILLS File After Sorting	56
15	Example Interactive Printout of the PMS5 File	58

## TABLES

1	Performance Savings for Closest Office Assignment, FY75	40
2	System Values (FY75 Data)	44

# REAL ESTATE MODEL OF ACTIVITY PERFORMANCE (REMAP) USER'S MANUAL

## 1 INTRODUCTION

### Background

In August 1973, the Deputy Chief of Engineers directed that a study be made to identify and evaluate field organizational alternatives for the period from 1975 to 1980. The study was to select field organization options which would provide solutions to problems associated with workload imbalances, user relationships, geographical distribution of work, funding and manpower implications, relationships between Federal regional centers and state and local interests, and time and distance factors as they affect management.

In February 1975, the Corps' Directorate of Real Estate (DAEN-RE) requested that an in-house study be made of the geographical boundaries of Corps field offices having real estate responsibilities. The study was to determine the best and most efficient way in which to handle the DAEN-RE mission for the Corps. The problem, as stated, is that overlapping geographical areas of responsibility, workload imbalances, inconsistent manpower utilization, and excessive travel time and expense are detrimentally affecting the overall performance of the DAEN-RE mission. The guidelines for the study indicated that primary concern should be for the efficiency and economy of the DAEN-RE mission, and that real estate service to the Air Force and to the Civil Works and Military Construction Directorates would benefit if this primary objective were attained.

In the spring of 1975, the U.S. Army Construction Engineering Research Laboratory (CERL) proposed that the revised real estate boundaries for the field offices be analyzed using computer techniques.

### Purpose

The purpose of this study was to develop a model of CONUS real estate activities to provide DAEN-RE with a management tool for evaluating various organizational alternatives. Procedures were to permit evaluation of specific "what-if" situations on a special case basis and to evaluate alternative assignments of real estate activities on an overall basis. The Real Estate Model of Activity Performance (REMAP) was developed in response to these objectives, and specific applications are described in the CERL Technical Report, *Real Estate*



*Organization Analysis Using the Real Estate Model of Activity Performance (REMAP) Evaluation Procedures.*<sup>1</sup>

The purpose of this report is to describe the (REMAP) evaluation procedures and provide the user with instructions for operating the computer programs and performing the manual calculations required in REMAP.

General Introduction to REMAP

REMAP analyzes alternative organizational locations of performance centers such as Division, District, field, or project offices. The procedures involve computer and manual techniques for conducting comparative analyses of real estate activity assignments which are dependent on the locations--actual or proposed--of real estate activities and offices throughout CONUS. The analyses compare relative differences in dollar and manpower requirements for the performance of real estate activities by various performance centers. REMAP uses computer-aided techniques to generate the annual workload of each performance center based on a selective assignment of activity locations to that center and to create visual displays of those assignments in the form of maps.

The computer programs in REMAP are written in FORTRAN extended for CDC 6000 series computers and are currently installed on a CDC 6700 computer at the Naval Ship Research and Development Center (NSRDC) in Bethesda, MD. Programs may be accessed in either interactive or batch mode. The job control language is SCOPE 3.4.2; source code is available on computer cards or magnetic tape. Inquiries about the availability of the program listings, source code, and system documentation should be addressed to U.S. Army, Office of the Chief of Engineers, Directorate of Real Estate (DAEN-RE), Washington, DC 20314.

Organization of Report

Chapter 2 describes the REMAP methodology. Chapter 3 describes the operating procedures which the user must follow in applying the model. Chapter 4 explains the input data for the nine real estate activities which can be analyzed using REMAP.

<sup>1</sup>C. P. Altheide, *Real Estate Organization Analysis Using the Real Estate Model of Activity Performance (REMAP) Evaluation Procedures*, Technical Report P-90 (U.S. Army Construction Engineering Research Laboratory, 1978).



### Mode of Technology Transfer

The REMAP evaluation procedures were developed for use by DAEN-RE as an in-house management tool. The computer program listings, source codes, and system documentation have been turned over to DAEN-RE along with this user's manual. Input data for the computer programs must be extracted from the Real Estate Master files maintained by the Engineer Data Processing Center (EDPC) and from quarterly reports submitted on ENG Forms 4564 and 1685. Division- and District-level evaluations of activity performance using the REMAP evaluation procedures requires access to these input data; i.e., to appropriate subsets of the data resident on the Real Estate Master Files. Requests for evaluations of alternative organizational locations of performance centers should be made through DAEN-REP. The *REMAP Evaluation Procedures* report is also available through DAEN-REP upon request. The REMAP evaluation procedures do not impact current Army or Engineer regulations.

## 2 REMAP METHODOLOGY

The REMAP evaluation procedures involve computerized and manual techniques. The basic steps in the procedure involve accessing an automated data processing (ADP) data base for a real estate activity, retrieving workloads and places of activity performance for a given time frame from this data base, and identifying the latitude and longitude of each CONUS real estate activity and of each actual and/or potential office location. Based on the user's criteria, activity locations are assigned to selected office locations. The expected costs and manpower required for that office to perform the activity workload at the assigned locations are then calculated using the computerized routines in REMAP. Performance dollars and manpower for a given assignment are compared with the existing assignment to ascertain potential performance savings. In addition, if the number of office locations is changed, total requirements for administrative dollars and manpower will also change. Administrative differences are manually calculated by the user, based on the choice of office locations. Adding the performance savings and administrative savings, if any, gives the total activity savings for the given assignment. Distinct real estate activities must be analyzed individually for each assignment. Activity savings, however, can be added to give total savings on a Corps-wide basis. The total savings of alternate assignments may then be compared.

The DAEN-RE activities which can be analyzed are Project Planning, Acquisition (Pre- and Post-Condensation), Inleasing, Outgranting, Disposals, Utilization and Compliance Inspections, and Relocation Assistance. Activities can be reassigned to actual or proposed performance centers in a number of ways; by reassigning all activities to the closest existing real estate performance center; by reassigning all activities to the closest performance center in a new list of centers (i.e., cities have been removed from and/or added to the list of existing offices); and by reassigning all activities at one or more performance centers to the closest remaining offices, with these other offices also maintaining their existing workloads. Partial reassignments of selected activities (e.g., all the activities performed by one organizational element) can also be analyzed with respect to each of the above assignments.

Techniques for retrieving the appropriate data for each activity are discussed in Chapter 4. Basically, the DAEN-RE activity master files at EDP must be accessed and the data for the desired fiscal year extracted. A data file of latitudes and longitudes for those activity locations represented in the master file must be created and merged with the newly created subset of the master file. A computer program, MAPDATA, performs this merger, generates a list of unmatched activity locations, conveniently sorts the file, and then stores the coded names of the three offices (from a user-defined list) closest to the activity location and the respective distances. The user must

identify the latitude and longitude of the unmatched activity locations, update this information to the file, and rerun MAPDATA. Storage of the three closest offices allows subsequent analyses involving the deletion of some cities from the original list to be performed without rerunning MAPDATA.

A second computer program, MAP, uses the output of MAPDATA to calculate and print workload totals for each city in the list of selected performance centers. The original list consists of those cities with existing DAEN-RE District offices. Division totals for groups of cities are also calculated based on the user's coding system for such groups. A visual aid in the form of a map of the activity locations is displayed to permit determination of regions in CONUS where the activity level is high. Figure 1 illustrates a map of the Inleasing activity for FY75. Each character printed represents a location in CONUS where at least one lease was acquired or renewed in FY75. The alphabetic character is the FY75 code for the DAEN-RE Division office which had jurisdiction over the negotiation of that lease. The codes are included in Appendix A. Figure 2 illustrates a map of these same Inleasing activity locations reassigned to the closest DAEN-RE District office. Again the code for the corresponding Division office is printed.

The computerized procedures in REMAP have been simplified for easy interactive usage. After the data files are created, the user need only choose variations in parameters to perform an activity analysis. An interactive program called PROFILE has been developed to provide this simplicity. From the interactive COMMAND mode, the user attaches PROFILE and selects parameters which represent the desired activity to be analyzed, the type of assignment considered, the fiscal year of data, and some YES/NO responses to various alternatives, such as whether or not to rerun MAPDATA, print the entire output directly, keep the existing list of cities, or create a new list. The user also must name the files which are created while PROFILE is operating. When PROFILE has completed its execution, the desired maps and totals of expected costs and manpower requirements are either printed directly, partially retrieved, or batched to a different printer at the discretion of the user. The user then repeats this process to analyze an alternative assignment for the same activity or the same assignment for a different real estate activity. Chapter 3 presents examples.



Figure 1. Map of Inleasing activity locations in FY75.



**INLEASING: DIVISION OF CLOSEST DISTRICT OFFICE  
ASSIGNMENT (29 CITIES)**

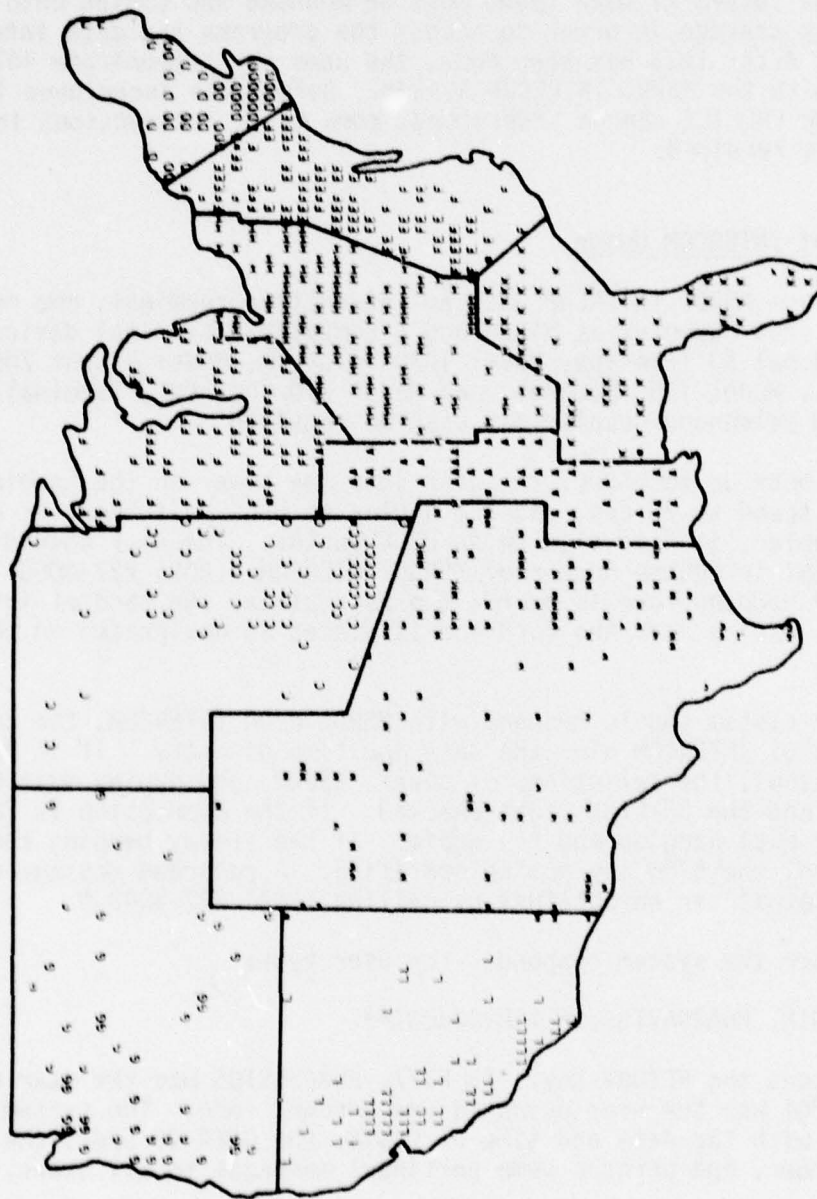


Figure 2. Map of FY75 Inleasing activity locations reassigned to the closest DAEN-RE performance center.

### 3 OPERATING PROCEDURES

The computer programs in REMAP and the FY75 and FY76 data on which calculations can be based are on magnetic tapes at NSRDC. These tapes and future FY data types must be mounted and copied onto permanent disk storage in order to access the programs and data interactively. After this has been done, the user may communicate interactively with the NSRDC INTERCOM System. Before the techniques for operating PROFILE can be understood, some basic instructions in INTERCOM usage are required.

#### Basics of INTERCOM Usage

To use NSRDC INTERCOM with an interactive terminal, one must use the CDC 6700 computer at NSRDC and a compatible terminal device (e.g., Model 33 Teletype, Model 1030 Teleterm, Model Silent 700 TI Terminal, Model 1280 Memorex, and Model 710 CDC [CRT] Terminal). A separate telephone coupler may also be required.

To hook up to NSRDC, the user sets the power on the terminal to ON, the speed to 30 cps, and the duplex to HALF. If there is a separate coupler, it must also be in HALF duplex. The user then dials the commercial telephone number of NSRDC INTERCOM, (202) 227-3000.\* When a steady beeping tone is heard, the user places the handset into the coupler, making sure the cord end is placed as designated on the coupler.

The system should respond with NSRDC 6700 INTERCOM, the current revision of INTERCOM plus the date and time of entry. If it does not respond thus, the selections of power, speed, and duplex must be rechecked and the ON-LINE light checked. If the connection is faulty, the user must hang up and try again. If the steady beeping tone is not heard, the 6700 may not be operating. A recorded message on "machine status" can be obtained by calling (202) 227-3043.\*

After the system responds, the user types

LOGIN, PUAJDAVIDS,\*\* 1189043801\*\*

and presses the RETURN key. In FY77, PUAJDAVIDS was the user name and 1189043801 was the user password and account code. The system should respond with the date and time of LOGIN, the USER-ID code, the EQUIP/PORT number, and perhaps some pertinent messages to all users. The

\*This phone number is subject to change.

\*\*LOGIN procedures, codes, and phone numbers are subject to change.

The user name, password, and account codes are created by NSRDC upon the establishment of an account.

system will be in the COMMAND mode and will indicate its readiness to accept commands via the remote terminal by displaying

#### COMMAND-

The user may then proceed to send commands to the system. Each time a desired command is typed, the RETURN key (or SEND key) must be pressed to send that command to the system. Throughout this report, pushing the RETURN key will be designated by -R-.

To exit from interactive usage, the user must be in the COMMAND mode and should send the command

#### LOGOUT -R-

The user should not hang up the phone until the system has responded with the time of logout and an estimated cost of usage.

The teletype terminals have special symbols and keyboard function keys. These are the RETURN, BREAK, CONTROL, and ESCAPE keys, which are described below.

1. RETURN Key (-R-). The RETURN key signals the end of a command or a line of input. If the teletypewriter line has a maximum of 72 characters, a full INTERCOM line of 80 characters can be input by depressing the line feed key and continuing the data on another teletypewriter line. When complete, the line can be transmitted by pressing the RETURN key.

2. BREAK Key. The BREAK key is used to recover from a temporary disconnection in the line. When a communication is disconnected, the BREAK light comes on. Pressing the BREAK key turns off the light. If the light remains off, the connection has been reestablished and normal operation can be resumed. If not, the user has been disconnected and must LOGIN again. If the time delay is long, local files may be lost. Permanent files would be retained, however.

3. CONTROL plus H Keys. Simultaneous pressing of the CONTROL and H keys physically backspaces the pointer and deletes the last character position from memory. The printed character is not physically erased but will not be transmitted. A new character can be typed in its place. CONTROL plus H can be repeated consecutively by holding down the CONTROL key and repeatedly pressing the H key.

4. CONTROL plus X Keys. Simultaneous pressing of the CONTROL and X keys terminates a line and prevents transmission of that line to INTERCOM. This keyboard function essentially deletes an entire line from memory. For convenience in visualizing the new line of printing, the RETURN or line feed key can be pressed.



5. ESCAPE Key. The ESCAPE key is pressed whenever the user wants to stop INTERCOM from communicating--for example, when a new roll of thermal paper must be installed during output transmission. Pressing the ESCAPE key interrupts the printing and puts INTERCOM in a holding position. Pressing the RETURN key allows printing to resume.

6. ESCAPE, %A. After pressing the ESCAPE key, typing %A and then -R- will abort the existing INTERCOM situation and return the user to the COMMAND mode.

#### Commands

The user will send several commands to INTERCOM. The first and most important is the ATTACH command. It is used to attach permanent files to INTERCOM, and may be typed as follows:

COMMAND- ATTACH,F,PROFILE,ID=PUAJ -R-

In essence, this command states that the permanent file named PROFILE, cataloged under user identification PUAJ, should be attached to INTERCOM and be given the local file name F.

The second command, called the BEGIN command, tells INTERCOM to begin the execution of the PROFILE program. It is written as follows:

COMMAND- BEGIN(EX,F,-----) -R-

Since the local file name of PROFILE is F, this simply instructs INTERCOM to BEGIN Execution of F. The information to follow F inside the parentheses is a list of user-selected parameters which are explained in the next section.

The next command is the BATCH command statement. If the user has chosen not to print the entire output of PROFILE on the local terminal, the BATCH command is required to print the output elsewhere. The user should send the following statement to INTERCOM:

COMMAND- BATCH,OUTPUT,PRINT,\_\_,NAME -R-

This statement tells INTERCOM to batch the local file called OUTPUT to print at another terminal coded by \_\_ and name the output with a four-character code, so that the user may identify it later. The two-digit code to BATCH print at CERL is YX; to BATCH print at EDPC the code is \_\_. The user can create a list of codes for possible BATCH printing locations. To BATCH print to the user's remote output terminal the code is the User ID 0U, which was given to the user by INTERCOM after LOGIN.

To partially retrieve the output, the PAGE command should be used. The statement



COMMAND- PAGE,OUTPUT -R-

will allow the user to retrieve certain parts of the output file. After the user sends the PAGE command, the system responds with READY.. and waits for the user to respond. If the user sends a +, INTERCOM will print the first 10 lines in the file. If the user types a number, say 123, then the 10 lines starting with the 123rd line are printed. Lines may also be retrieved by means of a character string between slashes. If a 72-character terminal is being used but the file being paged is longer, including a tab set will shift the print-out over a designated number of columns. For example,

COMMAND- PAGE,OUTPUT -R-

READY..+=/COMPLETE TOTAL/,TAB=50 -R-

will retrieve the first line with "Complete Total" in it and print that line plus nine more, starting in column 50.

This example statement will be the usual partial retrieval statement for viewing the total expected costs and manpower requirements for one activity assignment.

A complete library of search statements for the PAGE command can be obtained, if desired, by sending

READY..A -R- but generally other search statements would not be used.

To abort PAGE, an "E" for END is sent.

Two additional commands may be sent by the user. The command statement

COMMAND- FILES -R-

will display the names of all the local and remote output files, if any. The statement

COMMAND- ETL,500 -R-

will Extend the Time Limit for the execution of PROFILE. An extension may be necessary when analyzing the Inleasing, Outgranting, Disposals, Compliance, and Utilization activities if the data files are extremely large. If the built-in time limit is exceeded in PROFILE, the program will abort, inform the user TIME LIMIT EXCEEDED, and return the user to the COMMAND mode. The user should then send an ETL command and repeat the BEGIN statement.

### BEGIN Parameters

As indicated on page 16, the BEGIN command requires a sequence of parameters following F, the local file name of PROFILE. The full command is as follows:

```
BEGIN (EX,F,A=_,T=_,YR=_,L=_,OC=_,NC=_,R=_,NF=_,DN=_,W=_)
```

The parameter A represents the Activity to be analyzed. An alpha-character code must be inserted after the equals sign. One of the following activity codes must be entered.

- A --- Acquisition (Pre-Conviction)
- B --- Acquisition (Post-Conviction)
- C --- Compliance Inspection
- D --- Disposal
- I --- Inleasing
- O --- Outgranting
- P --- Project Planning
- R --- Relocation Assistance
- U --- Utilization Inspection

For example, A=D would request analysis of the Disposal activity.

The parameter T represents the Type of assignment selected. One of the following must be entered.

T=1, which generates maps and totals for both the existing assignments and closest assignments of the activity locations to a user-defined list of cities.

T=2, which generates a map and the totals for a partial re-assignment of selected cities' activities to the closest of other cities on a given list, with those other cities also maintaining their existing workloads. This type can be used to evaluate the transfer of workload from one or more performance centers to a specific city, just by selecting the given list of cities, so that the desired city is also the closest city.

T=3, which generates a map and the totals for an assignment of activity workloads to a given list of cities based on state boundaries.

YR represents the fiscal year of data being analyzed. The last digit of the year is required. YR=5 and YR=6 are currently the only possible choices, since only FY75 and FY76 data are available.

L, OC, and NC are parameters which specify Lists of cities with which the user will work. OC stands for Old list of Cities, NC for

New list of Cities. The old list of cities currently consists of the existing Division and District office locations. The name of the permanent file is EXDDF. Permanent file names are limited to 30 alphanumeric characters, with the first one being alphabetic. EXDDF is a default file name for OC and will not be changed unless the user selects a different permanent file name. Since analyzing any reassignment requires comparison of distances with the existing situation, the old cities list will remain EXDDF until DAEN-RE changes its current organizational structure. Figure 3 is a copy of the EXDDF permanent file.

There are three choices for L, which is used to specify the status of NC:

L=C, which means that the user wants to Create a list of cities to which activities will be assigned. A unique permanent file name must be selected by NC.

L=N, which means that the user already has a list of cities to which activities will be assigned and that list will Not be changed. This list will already have a permanent file name to be used for NC.

L=AD, which means that the user wants to ADD to the previously created list of cities. Again, a permanent file name will already be available to use for NC.

The parameter L has the default value of N. Thus, the user does not have to specify L in the BEGIN statement if L is equal to N. NC has a default value of EXDD2, which is a duplicate copy of EXDDF. If NC is the same as OC, then it need not be specified. If the user changes the list of cities ( $L \neq N$ ), then NC must be different from OC and hence must be specified.

R is a Yes or No parameter which indicates whether the user desires to Run the MAPDATA program within PROFILE. It is related to the NF parameter, which represents the Name of the permanent File created by MAPDATA, the program which merges the latitude/longitude file with the activity file to create an input file for the MAP program. This input file needs a unique permanent file name. Whenever MAPDATA is run, NF must be given that permanent file name. If MAPDATA is not to be run, there is already an existing permanent file name which must then be assigned to NF. MAPDATA will usually be run the first time an activity is analyzed, but rerun only if the list of new cities is dramatically changed. Consequently, R has a default value of N. NOTE: MAPDATA must be run ( $R=Y$ ), whenever  $L \neq N$ .

An additional permanent file of Division and District Names is generated by MAPDATA and must be identified by the user. DN is the parameter which represents this file name. It must be uniquely



A0	3221	9053	LMVD
A1	35	8	90 3 MEMPHIS
A2	2958	90	4 NEW ORLEANS
A3	3837	9012	ST. LOUIS
A4	3221	9053	VICKSBURG
C0	4117	96	1 MRD
C1	39	6	9435 KANSAS CITY
C2	4117	96	1 OMAHA
D0	4223	7114	NED
D1	4223	7114	BOSTON
E0	4043	74	0 NAD
E1	3917	7637	BALTIMORE
E3	4043	74	0 NEW YORK
E4	3651	7617	NORFOLK
E5	3957	7510	PHILADELPHIA
F0	4153	8738	NCD
F2	4153	8738	CHICAGO
G0	453212237		NPD
G2	453212237		PORTLAND
G3	473612220		SEATTLE
G4	46	411820	WALLA WALLA
H0	39	6	8431 ORD
H1	3825	8227	HUNTINGTON
H2	3815	8546	LOUISVILLE
H3	3610	8647	NASHVILLE
H4	4026	80	1 PITTSBURGH
K0	3345	8423	SAD
K3	3020	8139	JACKSONVILLE
K5	3041	88	3 MOBILE
K6	32	5	81 6 SAVANNAH
L0	374712225		SPD
L1	34	411815	LOS ANGELES
L2	383512129		SACRAMENTO
M0	3247	9649	SWD
M1	35	510639	ALBUQUERQUE
M2	3245	9718	FT. WORTH
M3	2918	9448	GALVESTON
M4	3445	9217	LITTLE ROCK
M5	3610	9555	TULSA

Figure 3. EXDDF permanent file.

specified whenever MAPDATA is run (R=Y). DN is associated with NF, since they are created under similar conditions. It would be convenient for the user to choose a name which shows this association. For example, if R=Y and NF=XYZ, DN could be XYZDN.

The final BEGIN parameter is W. It is a Yes or No parameter signifying whether the user wants the entire output of PROFILE Written directly on the interactive terminal (W=Y) or the user intends to partially retrieve and/or batch print the output elsewhere (W=N). The default value of this parameter is N, since it is anticipated that outputs will usually be printed elsewhere while subsequent analyses are being generated on the interactive terminal.

Those parameters in the BEGIN statement which have default values do not have to be specified if the user accepts the default value; that is, to state BEGIN (EX, F, -----, L=N, -----) is redundant, since the default value of L is N.

Appendix B contains a table of the BEGIN parameters' definitions, their acceptable values, and default values for quick reference.

The following examples of BEGIN statements should assist the user in establishing appropriate parameter values.

Example 1: The user wants to analyze the Inleasing activity by comparing the existing office assignment versus assignment to the closest existing offices using FY76 data. The user desires to retrieve the complete totals for each assignment and then have the maps and totals printed elsewhere. The BEGIN statement should be

```
BEGIN (EX,F,A=I,T=1,YR=6,R=Y,NF=INLEX,DN=INLEXDN) -R-
```

Explanation: For the Inleasing activity, A=1. To compare an existing situation versus assignment to the closest existing offices is a type-1 assignment, so T=1. FY76 data implies YR=6. Since the list of cities is the existing Division and District office locations, OC=EXDDF by default. The cities to which workloads will be assigned are the same, so the user accepts NC=EXDD2 and L=N by default. This is the first analysis of the Inleasing activity and MAPDATA must be run. Hence, R=Y, and the names of NF and DN are specified as INLEX (IN-Leasing EXisting situation) and INLEXDN. Note that the value of W is N (the default value) and was not specified.

Example 2: The user wants to analyze the Inleasing activity based on reassignment of the Inleasing workloads of three specific offices to their next closest office. All other offices would also maintain their existing workload. Output is to be partially retrieved interactively. The BEGIN statement should be

```
BEGIN (EX,F,A=I,T=2,YR=6,NF=INLEX,DN=INLEXDN) -R-
```

Explanation: This is a type-2 assignment (T=2) for the Inleasing activity (A=I). Again FY76 implies YR=6. As in Example 1, OC=EXDDF and NC=EXDD2 so OC and NC need not be specified. Since MAPDATA need not be run, the default value of R is accepted (R=N), and the output (INLEX) of the previously run MAPDATA must be used for NF. DN is unchanged. W=N by default. The three offices would be specified after the PROFILE program inquires about such.

Example 3: The user wants to analyze the Inleasing activity by comparing a reassignment of the Inleasing workloads to the closest of the 10 existing Division offices with a reassignment to a list having two additional cities (or 12 office locations). Output is to be partially retrieved and then batch-printed elsewhere. There are two assignments to consider--one with 10 cities, and one with 12. The BEGIN statements are

```
BEGIN (EX,F,A=I,T=1,YR=6,L=C,NC=DIV12,R=Y,NF=INL12,DN=INL12DN) -R-
```

and

```
BEGIN (EX,F,A=I,T=1,YR=6,NC=DIV12,NF=INL12,DN=INL12DN) -R-
```

Explanation: The choices of A, T, and YR should be clear. In the first case the user needs to create (within PROFILE) a list of the 12 cities; hence, L=C, and the name DIV12 is given to NC. OC is still EXDDF. MAPDATA will have to be run so that Inleasing activity locations can be assigned to the three closest cities in this list of 12 offices. New names must be given to NF and DN. In the second case the user may delete the two extra cities in the list of 12 within the PROFILE program to analyze the closest assignment to the 10 Division offices. It is therefore not necessary to change NC (L=N by default) nor to run MAPDATA again (R=N by default). NF and DN are still INL12 and INL12DN. Deletion of cities from the NC list is explained in the next section.

The user could have analyzed these two assignments in reverse order. However, NC would then have been a list of 10 cities (created within PROFILE) instead of 12. The first BEGIN statement would have been the same except for code names for NC, NF, and DN--perhaps DIV10, INL10, and INL10DN--but the second BEGIN statement would need L=AD in order to add the two additional cities. This would necessitate running MAPDATA a second time, resulting in higher computer charges.

## PROFILE

As mentioned in Chapter 2, PROFILE is an interactive program developed to simplify the computerized procedures in REMAP. Attaching the PROFILE program and sending a BEGIN statement with appropriate parameters is all that is required to begin execution of PROFILE.



Based on certain values of the L parameter, PROFILE asks the user a question and gives specific directions for the user's response.

When L is not its default value of N, the user wants either to create a new list of cities to which activity workloads will be assigned or to add locations to a previously created list of city locations. This list will be, or has been, named by the parameter NC, depending on whether L=C or L=AD. In the first case, PROFILE requests a permanent file to be named by NC; in the second case, PROFILE attaches the existing NC. In either case, the system will respond with the question:

DO YOU WANT TO CREATE THE OFFICE LIST OR JUST ADD SOME TO THE OLD ONE?

TYPE C FOR CREATE: TYPE A FOR ADD:

If L=C, then the user must type "C" again. The system will respond:

PLEASE ENTER EACH SET OF INFORMATION IN ONE LINE IN THE FOLLOWING FORMAT

XY ADAMLDDLM LOCATION

START FROM 1ST COLUMN, TYPE

X:DIV SYMBOL;USE ANY ALPHABETIC CHARACTER FROM A TO N EXCEPT I OR J;Y:DISTRICT NO.;ANY NUMBER FROM 0-9,0 MUST BE USED FOR DIVISION OFFICE;

...DO NOT CREATE A DISTRICT CODE UNLESS A DIVISION CODE IS ALSO CREATED OR ALREADY EXISTS...

THEN 4 BLANKS,AND

AD: 2 DIGITS FOR DEGREE OF LATITUDE;

AM: 2 DIGITS FOR MINUTE OF LATITUDE;

LDD:3 DIGITS FOR DEGREE OF LONGITUDE;

LM: 2 DIGITS FOR MINUTE OF LONGITUDE;

TYPE 1 BLANK, AND THEN

LOCATION:10 CHARACTERS FOR BRIEF NAME OF LOCATION

FOR EXAMPLE:

A0	4007 8815 CERL
A1	4007 8815 CHAMPAIGN
B0	3790 7700 OCE
B1	3790 7700 WASH D.C.

...FOR ANY DUPLICATE XY IN THE LIST, ONLY THE FIRST OCCURRENCE WILL BE RECOGNIZED, OTHER(S) WILL BE IGNORED. AFTER ENTERING ALL DATA, PLEASE TYPE ++ IN THE FIRST TWO COLUMNS ON THE NEXT LINE...

The system will wait for the user to create the list of cities, line by line, until the "++" is sent; the permanent file for NC will then be cataloged. The user should be aware that the cities in the new list are potential Division and District offices. Division offices are identified with a District number of zero. District office codes must relate to a Division code or they will be ignored; i.e., C3 will be ignored as a District code if there is not a Division code of C0.

If L=AD, the user must send an "A". In this case the system will respond by printing the current list NC and then the same instructions as illustrated for L=C. For example, if NC=EXDD2, the user's response of

```
C3      394410459      DENVER
```

```
++
```

would add Denver as a District office under MRD's (C0) jurisdiction. NC is recataloged with a higher cycle, so that now EXDD2 would have Denver on it. Any activity analysis which uses this augmented list will assign workloads to the closest of 30 performance centers. The user should recall from p 19 that whenever a new list of cities is created (L=C) or additions to an old list are made (L=AD), then MAP-DATA must be run (R=Y).

No other parameter in the BEGIN statement requires interactive responses. R and W are yes/no parameters and PROFILE will do what the user selects. OC, NC, NF, and DN are names of permanent files. Within PROFILE, the ATTACH command is used to attach the appropriate permanent files. However, if the files cannot be found, the system will inform the user

```
FILE NOT CATALOGED
```

```
PF ABORT
```

and the PROFILE program will abort. The system then returns the user to the COMMAND mode and the user must check for incorrect file names within the BEGIN statement. For example, if MAPDATA has already been run and the user accepts R=N, but inputs an incorrect name for NF, the system will abort because it cannot find that name. Other reasons for causing a PF abort (besides typing errors) would be if the data are not available for the desired YR or the time limit is exceeded (see ETL command). If there are any problems with lost or missing files, the user may call the NSRDC User Service number 202-227-1907\* for assistance.

---

\*This phone number is subject to change.

In the MAP program within PROFILE, expected dollar and manpower requirements are calculated based on the activity workloads assigned to an office and the number of trips required to perform that activity. System values for each fiscal year must be determined in advance and stored along with the activity data. Techniques for determining these system values are explained in Chapter 4.

However, the user may change one or more of these values during various analyses interactively within PROFILE if desired. In fact, the system will always ask the user

WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,NO. OF TRIPS,FIXED COST/OFFICE,FIXED MAN YR/OFFICE,AVG WAGE/DAY?  
IF YES TYPE Y;OTHERWISE TYPE N:

If the user types "N", PROFILE will go on to its next question. If the user types "Y", the system will inquire about each one of the six values separately and print the current value, asking, for example,

WANT TO CHANGE VALUE OF COST/UNIT? = 622.280 BY DEFAULT  
IF NOT,TYPE N,O.W.TYPE Y:

"O.W." stands for "otherwise."

Then it waits for the user to send either a "Y" or an "N". Whenever the response is "Y", the system asks the user to type in the new value. Figure 4 is a sample of the interactive response for the Acquisition (Post-Confiscation) activity, where the number of trips is changed to 5 from its default value of 3.

The next question asked in PROFILE concerns the deletion of cities from NC. The system asks

WANT TO DELETE ANY DISTRICT? TYPE Y OR N:

If the response is "Y", the system states

PLEASE ENTER THE DIVISION SYMBOL(S) AND DISTRICT NO.(S) WHICH ARE TO BE DELETED WITH ONE BLANK IN BETWEEN AND ENTER THEM ALL IN ONE LINE...USE ANY CHARACTER FROM A TO N EXCEPT I OR J FOR DIVISION SYMBOL;...ANY NUMBER FROM 1 TO 9 FOR DISTRICT NO. ...

If the user were to type "D1 L2" and press RETURN, no activity workload would be assigned to District offices D1 or L2 in a type 1 (T=1) assignment. In a type 2 assignment, only their existing workloads would be reassigned to the next closest performance center.

This step concludes the inquiring portion of PROFILE. PROFILE will then continue to execute until it is finished. The system will



COMMAND- BEGIN(EX,F,A=B,T=1,OF=BNSM,DN-BNSMDN)  
 WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,NO. OF TRIP,FIXED C  
 OST/OFFICE,FIXED MAN YR/OFFICE,AVG WAGE/DAY?  
 IF YES TYPE Y;OTHERWISE TYPE N:  
 PF CYCLE NO. = 001  
 PF CYCLE NO. = 002  
 CM LWA+1 = 2122B, LOADER USED 3300BY  
 WANT TO CHANGE VALUE OF COST/UNIT? = 622.280 BY DEFAULT  
 IF NOT, TYPE 'N',O.W. TYPE 'Y':N  
 WANT TO CHANGE VALUE OF MAN YR/UNIT? = .029 BY DEFAULT  
 IF NOT, TYPE 'N',O.W. TYPE 'Y':N  
 WANT TO CHANGE VALUE OF NO. OF TRIP? = 3.000 BY DEFAULT  
 IF NOT, TYPE 'N',O.W. TYPE 'Y':Y  
 TYPE NO. OF TRIP:5  
 WANT TO CHANGE VALUE OF FIX COST/DIST OFFICE? = 20851.620 BY DEFAULT  
 IF NOT, TYPE 'N',O.W. TYPE 'Y':N  
 WANT TO CHANGE VALUE OF FIX MAN YR/DIST OFFICE? = .330 BY DEFAULT  
 IF NOT, TYPE 'N',O.W. TYPE 'Y':N  
 WANT TO CHANGE VALUE OF AVG WAGE/DAY? = 61.470 BY DEFAULT  
 IF NOT, TYPE 'N',O.W. TYPE 'Y':N

Figure 4. Sample interactive response for Acquisition (Post-Condensation) activity: change number of trips from default value of 3 to 5.

indicate to the user where it is in its execution stage. If MAPDATA is being run, the system will indicate when it is done by stating

END MAPDATA

and the quantity of system seconds used. If any permanent files have been created and cataloged, the system will print pertinent information about them. PROFILE will indicate when it has finished the MAP program by stating

END AMAPT

and the execution time in system seconds. The first "A" and the "T" in AMAPT are the activity parameter A and the type parameter T, the values of which would be printed here; i.e., if Inleasing were being analyzed with a type 2 assignment, this statement would be

END IMAP2

and the corresponding execution time.

PROFILE will then return the user to the COMMAND mode, provided W=N. If W=Y, the entire output will be printed directly on the user's local terminal. From the COMMAND mode, the user may either partially retrieve information from OUTPUT by using the PAGE command or batch print the entire output elsewhere, as explained on p 17.

### Output

Output of the PROFILE program includes maps of activity locations throughout CONUS and the totals of expected costs and manpower requirements to perform the activity workload at those locations when assigned to various performance centers.

For a type-1 assignment, two pairs of maps are displayed for each activity. The first pair shows the existing assignment for the given fiscal year of data. Activity locations are identified by the alpha-character code for the Division to which the performance center belongs and then by the numeric-character code for the District office (or performance center) which performed the activity there. The codes are taken from EXDDF, the list of old cities. For display purposes, the latitudes and longitudes for each location were rounded off to the nearest half-degree and stored in an appropriate rectangular array prior to being printed. In this existing assignment, it is quite possible that two distinct character codes had to be stored in the same place, in which case the symbol # is printed.

The second pair of maps for a type-1 assignment shows the assignment of all activity locations to the closest performance center on

the list of cities in NC, with reassignment to the next closest city in the event the user deleted some cities from NC. As before, an alpha-character code is printed for the Division having jurisdiction over the performance center to which the activity location was assigned and then a numeric-character code is printed for the respective performance center. Figures 1 and 2 in Chapter 2 are examples of the first maps in each pair for the existing and closest assignment of the Inleasing activity locations.

Similarly, two maps are displayed for a type-2 assignment in which activity locations currently assigned to some performance centers are reassigned to the next closest city still on NC. Those cities not deleted from NC would also maintain their existing workload. If no cities are deleted from NC, the type-2 assignment maps are identical to the existing situation.

Following the maps is a complete breakdown of the activity workload units for the selected Division and District performance centers. A record of the type of activity workload unit is printed, along with the expected costs and man-years required to perform those units, the fixed costs and fixed man-years required to have the capability of performing any units for that activity, and subtotals and totals for each District, each Division, and the Corps. The existing assignment totals are printed first, followed by the closest assignment totals. The last line of an assignment total is the

#### COMPLETE TOTAL THIS ASSIGNMENT

and is typically the line retrieved by using the PAGE command prior to batch printing the maps and District totals to some alternate terminal.

An example printout of the totals for a type-1 assignment is shown in Figure 5 for the Inleasing activity where OC=EXDDF and NC=EXDD2.

The user should now be sufficiently acquainted with the computerized techniques in REMAP to perform some trial analyses. The three examples in the BEGIN Parameters section of this chapter are suitably realistic cases. It is recommended that the user attempt to execute at least example 1 before reading further. It is also recommended that the user perform type-1 analyses for all the real estate activities for each fiscal year of data considered. The complete interactive responses to the examples are presented in Appendix C.

#### Performance Analysis

Once PROFILE has completed its execution and the complete totals for the chosen assignment have been retrieved, the analysis of the



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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT OF THE EXISTING DISTRICT OFFICE

DIVISION	INLEASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A: LMWD				
ACT TOTAL	R	1	239.00	.14
ACT FIXED		1	239.00	.14
TOTAL FOR DISTRICT A1 AT MEMPHIS		1	10650.00	.27
			10889.00	.41
ACT TOTAL	N	4	956.00	.56
ACT FIXED		4	956.00	.56
TOTAL FOR DISTRICT A2 AT NEW ORLEAN		4	10650.00	.27
			11606.00	.83
ACT TOTAL	N	4	956.00	.56
ACT FIXED	R	1	239.00	.14
TOTAL FOR DISTRICT A3 AT ST. LOUIS		5	1195.00	.70
			10650.00	.27
		5	11845.00	.97
ACT TOTAL	N	13	3107.00	1.82
ACT FIXED	R	2	478.00	.28
TOTAL FOR DISTRICT A4 AT VICKSBURG		15	3585.00	2.10
			10650.00	.27
		15	14235.00	2.37

Figure 5. Example printout for Type-1 assignment for Inleasng activity (OC=EXDDF and NC=EXDD2).

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		C: MPD			
ACT TOTAL	N	21	5019.00	2.94	
ACT FIRED	P	4	956.00	.56	
TOTAL FOR THE DIVISION		25	5975.00	3.50	
		25	42600.00	1.09	
		25	48575.00	4.59	
		C: MPD			
ACT TOTAL	N	85	20315.00	11.00	
ACT FIRED	P	35	8365.00	4.90	
TOTAL FOR DISTRICT C1 AT KANSAS CIT		120	26680.00	16.80	
		120	10650.00	.27	
		120	39330.00	17.07	
		C: MPD			
ACT TOTAL	N	564	134796.00	78.96	
ACT FIRED	P	271	64769.00	37.94	
TOTAL FOR DISTRICT C2 AT OMAHA		835	199565.00	116.90	
		835	10650.00	.27	
		835	210215.00	117.17	
		C: MPD			
ACT TOTAL	N	649	155111.00	90.86	
ACT FIRED	P	306	73134.00	42.84	
TOTAL FOR THE DIVISION		955	228245.00	133.70	
		955	21300.00	.55	
		955	249545.00	134.25	
		C: MPD			
ACT TOTAL	N	0	0.00	0.00	
ACT FIRED	P	0	10650.00	.27	
TOTAL FOR DISTRICT D1 AT BOSTON		0	10650.00	.27	

Figure 5 (con't)

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ACT TOTAL					
ACT FIREN					
TOTAL FOR THE DIVISION					
E: M40					
ACT TOTAL	251	03009.00		49.14	
ACT FIREN	17	4003.00		2.30	
TOTAL FOR DISTRICT E3 AT BALTIMORE	360	07952.00		51.52	
ACT TOTAL		10650.00		.27	
ACT FIREN					
TOTAL FOR DISTRICT E3 AT NEW YORK	449	107311.00		62.06	
ACT TOTAL	20	4700.00		2.00	
ACT FIREN	449	112901.00		65.06	
TOTAL FOR DISTRICT E3 AT NEW YORK	449	10646.00		.27	
ACT TOTAL		122761.00		65.93	
ACT FIREN					
TOTAL FOR DISTRICT E4 AT MEMPHIS	45	10755.00		6.30	
ACT TOTAL	45	10755.00		6.30	
ACT FIREN		10650.00		.27	
TOTAL FOR DISTRICT E4 AT MEMPHIS	45	21405.00		6.57	
ACT TOTAL					
ACT FIREN					
TOTAL FOR DISTRICT E5 AT PHILADELPHIA	1	230.00		.14	
ACT TOTAL	1	230.00		.14	
ACT FIREN		10650.00		.27	
TOTAL FOR DISTRICT E5 AT PHILADELPHIA	1	10009.00		.41	
ACT TOTAL					
ACT FIREN					
TOTAL FOR THE DIVISION	846	202104.00		110.44	
ACT TOTAL	37	0043.00		5.18	
ACT FIREN	803	211037.00		123.42	
TOTAL FOR THE DIVISION	803	42600.00		1.99	
ACT TOTAL		253637.00		124.71	
ACT FIREN					
F1: M40					
ACT TOTAL	5	1109.00		.70	
ACT FIREN	13	1912.00		1.12	
TOTAL FOR DISTRICT F2 AT CHICAGO	13	3107.00		1.82	
ACT TOTAL		10650.00		.27	
ACT FIREN					
TOTAL FOR DISTRICT F2 AT CHICAGO	13	13707.00		2.09	
ACT TOTAL					
ACT FIREN					
TOTAL FOR THE DIVISION	13	1109.00		.70	
ACT TOTAL	13	1912.00		1.12	
ACT FIREN		3107.00		1.82	
TOTAL FOR THE DIVISION	13	10650.00		.27	
ACT TOTAL		13707.00		2.09	
ACT FIREN					

Figure 5 (con't)



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[illegible]

**Figure 5 (con't)**

33

Figure 5 (con't)

WT	SuD	N	R	ACT TOTAL	ACT FINE	TOTAL FOR DISTRICT M1 AT ALBUQUERQUE
		18		4302.00	2.52	
		12		2465.00	1.68	
		36		1770.00	6.20	
		36		1845.00	.27	
				17820.00	6.67	
		110		26202.00	10.52	
		73		17667.00	10.22	
		191		45649.00	26.74	
		191		10650.00	.27	
				56290.00	27.01	
		52		12420.00	7.20	
		52		12420.00	7.20	
		52		10650.00	.27	
				23070.00	7.55	
		16		3924.00	2.24	
		13		3107.00	1.02	
		29		6931.00	4.06	
		29		10650.00	.27	
				17581.00	4.33	
		40		9540.00	5.60	
		7		678.00	.28	
		42		10030.00	5.88	
		42		10650.00	.27	
				29608.00	6.15	
		244		50316.00	34.14	
		100		23940.00	14.00	
		344		82216.00	48.14	
		344		53250.00	1.37	
				136466.00	69.52	
		3600		1171001.00	613.10	

COMPUTE TOTAL TIME ASSIGNMENT



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THE FOLLOWING DISTRICT WONDIOUS WERE CALCULATED USING  
ASSIGNMENT TO THE CLOSEST DISTRICT OFFICE

DIVISION	INFLASING TYPE	WONLOAD (UNITS)	COST(S)	EFF. MON/YR
AT LWD				
	N	124	25849.07	17.27
	R	54	14317.22	8.26
ACT TOTAL				
ACT FIRED		103	39366.79	25.53
			10650.00	.27
TOTAL FOR DISTRICT A1 AT VICKSBURG		103	50016.79	25.81
-----				
	N	124	25849.07	17.27
	R	54	14317.22	8.26
ACT TOTAL				
ACT FIRED		103	39366.79	25.53
			10650.00	.27
TOTAL FOR THE DIVISION		103	50016.79	25.81
-----				
CT WBN				
	N	294	74985.18	41.52
	R	142	36072.40	19.92
ACT TOTAL				
ACT FIRED		436	111057.58	61.44
			10650.00	.27
TOTAL FOR DISTRICT C2 AT OMAHA		436	121707.58	61.72
-----				
	N	294	74985.18	41.52
	R	142	36072.40	19.92
ACT TOTAL				
ACT FIRED		436	111057.58	61.44
			10650.00	.27
TOTAL FOR THE DIVISION		436	121707.58	61.72
-----				
D: WBN				
	N	209	36722.68	29.02
	R	14	2591.79	1.04
ACT TOTAL				
ACT FIRED		223	39314.46	30.96
			10650.00	.27
TOTAL FOR DISTRICT D4 AT HASTON		223	49964.46	31.23
-----				

Figure 5 (con't)

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ACT TOTAL	299	36722.68	29.82
ACT FIRM	14	2591.79	1.95
TOTAL FOR THE DIVISION	223	39314.46	30.96
	223	10650.00	.27
	223	49964.46	31.23
FI NAO	488	131945.37	68.61
	17	4507.93	2.39
ACT TOTAL	505	136453.30	71.00
ACT FIRM		10650.00	.27
TOTAL FOR DISTRICT FA AT NEW YORK	505	147103.30	71.27
ACT TOTAL	488	131945.37	68.61
ACT FIRM	17	4507.93	2.39
TOTAL FOR THE DIVISION	505	136453.30	71.00
	505	10650.00	.27
	505	147103.30	71.27
FI MCD	318	31651.75	42.68
	148	14989.85	19.28
ACT TOTAL	458	46641.60	61.96
ACT FIRM		10650.00	.27
TOTAL FOR DISTRICT FA AT CHICAGO	458	57291.60	62.23
ACT TOTAL	318	31651.75	42.68
ACT FIRM	148	14989.85	19.28
TOTAL FOR THE DIVISION	458	46641.60	61.96
	458	10650.00	.27
	458	57291.60	62.23
FI MPD	211	50512.12	29.58
	21	4991.16	2.94
ACT TOTAL	232	55503.27	32.52
ACT FIRM		10650.00	.27
TOTAL FOR DISTRICT G1 AT PORTLAND	232	66153.27	32.79

Figure 5 (con't)

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ACT TOTAL ACT FIRED TOTAL FOR THE DIVISION	N D	211 41	58512.12 4991.16	29.58 2.94
		232	55503.27 10458.00	32.52 .27
		232	66153.27	32.79
ACT TOTAL ACT FIRED TOTAL FOR DISTRICT #6 AT CINCINNATI	N D	210 36	20120.47 2037.61	30.04 6.92
		254	30166.00 10650.00	34.00 .27
		254	40816.00	34.27
ACT TOTAL ACT FIRED TOTAL FOR THE DIVISION	N D	210 36	20120.47 2037.61	30.08 6.92
		254	30166.00 10650.00	35.00 .27
		254	40816.00	35.27
ACT TOTAL ACT FIRED TOTAL FOR DISTRICT #7 AT ATLANTA	N D	349 201	77901.29 67113.46	48.74 36.31
		630	145094.74 10650.00	88.05 .27
		630	145744.74	88.32
ACT TOTAL ACT FIRED TOTAL FOR THE DIVISION	N D	349 201	77901.29 67113.46	48.74 36.31
		630	145094.74 10650.00	88.05 .27
		630	145744.74	88.32
ACT TOTAL ACT FIRED TOTAL FOR DISTRICT #4 AT SAN FRANCISCO	N D	202 36	80248.00 12286.93	30.04 5.10
		310	101554.93 10650.00	44.95 .27
		310	112204.93	45.22

Figure 5 (con't)



38

Figure 5 (con't)

activity performance for that assignment should be compared with the performance of the existing assignment. Differences should be identified as potential gains or losses, to be added when collectively analyzing that assignment on a Corps-wide basis.

Any performance savings are relative to the existing situation for which the total costs and manpower requirements are expected totals, not necessarily actual totals. Table 1 gives the expected performance dollars using FY75 data for each real estate activity and the relative total savings of the two closest office assignments as determined in the *Real Estate Organization Analysis Using the Real Estate Model of Activity Performance (REMAP) Evaluation Procedures*.<sup>2</sup>

As mentioned in Chapter 2, if the selected list of office locations to which activities are to be assigned (NC) has fewer cities than there are existing real estate performance centers (EXDDF), administrative savings may also be possible. The user must calculate these additional savings by determining the effective salaries of administrators and their personal staffs which would be saved due to a reduced number of performance centers.

On the other hand, if the user chooses to analyze an assignment of activities to more performance centers than currently in existence, the cost of administrative salaries incurred at those additional centers would offset any performance savings.

Total savings for an assignment of activity locations to a selected list of cities can thus be determined by summing the expected performance and administrative savings.

As an illustration, suppose the user wants to compare the reassignment of workloads of two performance centers, X1 and X2, which are geographically close. For each activity, a type-1 (T=1) assignment should be analyzed in PROFILE. The PROFILE output would be the maps and totals for the existing situation and the closest assignment. Next, two type-2 (T=2) assignments should be performed for each activity, one with X1 deleted from NC, the other with X2 deleted. Since the centers are close, each would probably be assigned some of the other's workload. Performance totals for all the activities can be compared to determine which reassignment yields the most performance benefits. However, before making a decision, the user should manually calculate any administrative savings which would be realized by each potential reassignment. It is quite possible that administrative

<sup>2</sup>C. P. Altheide, *Real Estate Organization Analysis Using the Real Estate Model of Activity Performance (REMAP) Evaluation Procedures*, Technical Report P-90 (U.S. Army Construction Engineering Research Laboratory, 1978).

Table 1  
Performance Savings for Closest Office Assignment, FY75

Activities	Assignment	Existing District Office	Cost (\$000) Closest District Office	Closest Division Office
Project Planning		1679	1516	1360
Acquisition (Pre)		12020	11755	10146
Acquisition (Post)		1172	1158	853
Inleasing		894	749	696
Outgranting		1139	1104	965
Disposals		503	445	384
Utilization		651	602	588
Compliance		540	367	516
Relocation Assistance		967	946	652
Performance Totals		19566	18643	16161
Performance Savings			923	3405
Administrative Savings			0*	**
Total Savings			923	**

\*No administrative savings, since the number of performance centers is unchanged.

\*\*Needs to be determined by the user, since the number of performance centers has been reduced to ten.



savings may outweigh the performance savings and result in the decision-maker's revising an original impression.

### Summary

In general the user will be evaluating performance using different organizational structures for the Directorate of Real Estate. For each real estate activity--Project Planning, Acquisition (Pre- and Post-Condensation), Inleasing, Outgranting, Disposals, Compliance Inspections, Utilization Inspections, and Relocation Assistance--evaluations of the performance of expected workloads by various organizational elements (Division, District, field, and project offices) called performance centers are conducted. The procedures to analyze various assignments of activity workloads to these performance centers can be summarized as follows:

1. Establish the list of existing real estate performance centers (OC).
2. Establish new lists of proposed performance centers (NC).
3. Determine criteria for assigning activity workloads to those centers (T=1 or 2).
4. Use the PROFILE program in REMAP to determine the expected activity workloads, performance costs, and manpower requirements for the selected assignments (BEGIN).
5. Determine potential administrative savings for the selected assignments (manually).
6. Compare total savings in performance and administration for each activity and for all activities together for all assignments.
7. Choose the reassignment of activity workloads which will result in the organizational structure which improves the economy and efficiency of the DAEN-RE mission.

## 4 DATA REQUIRED

The previous chapter discussed the REMAP operating procedures assuming that the data were ready for the user to input into REMAP. This chapter explains the input data for each of nine real estate activities using FY75 data. The system values are also derived using FY75 data. The techniques for establishing activity location files with the appropriate formats are also discussed.

Within the PROFILE program, two major computer programs are executed--MAPDATA and MAP. The output of MAPDATA is used as input to MAP. This is done automatically within PROFILE; all the user need do is specify names for the MAPDATA output (NF and DN).

### System Values

The system values which are currently defaulted in PROFILE are also used as input to the MAP program. For each activity, these values include the cost per unit, the man-years per unit, number of trips, fixed cost per office, fixed man-year per office, and average salary per day. During PROFILE, one or more of these values can be changed for a single run, but they are not permanently changed within PROFILE. For subsequent runs, the default values are used unless the user changes them each time. Since changing the values for each run could become tedious, a way to permanently change these values was developed. This method is particularly helpful in implementing the values for a new fiscal year; a permanent file of each year's values should be created.

The system values for activity A are stored in a permanent file, named AYR, where A and YR are BEGIN parameters for the activity and fiscal year, e.g., system values for project planning for FY75 are currently stored in the permanent file P5. These values are

Cost per unit	= \$657
Man-years per unit	= 0.030
Number of trips per unit	= 10
Fixed cost per office	= \$31,161
Fixed man-years per office	= 1.104
Average salary per day	= \$61.47

These values are stored in the file on one data line. The procedures for permanently changing any of these values are best explained by illustrating how to create the permanent file P6. After logging in, the user types

COMMAND- ATTACH, P5, ID=PUAJ

COMMAND- EDITOR

. . E, P5, S

. . L, 100

. . 100= 657.0 0.030 10 31161. 1.104 61.47

. . 100= 658.0 0.031 11 31162. 1.105 61.48

(All numbers and decimal points must be in the appropriate columns.)

. . Save, THIS

. . CATALOG, THIS, P6, ID=PUAJ

. . B, B

COMMAND-LOGOUT

If permanent changes are desired for P5, the local file THIS could be cataloged as P5; the computer would then assign a higher cycle number to it, which would cause the new P5 to be automatically attached in PROFILE instead of the original.

The six system values for the other real estate activities are stored similarly in separate permanent files. Changes to those values can be made similarly.

The number-of-trips system value was originally determined by discussions with selected personnel at DAEN-RE. The user may choose any number which is appropriate. The average salary per day was calculated by dividing the average annual salary paid out by all District offices to all personnel as of the end of FY75 (as reported on the ENG Forms 1685) by the number of working days per year.

The other four system values were determined by using information reported by the Districts on ENG Form 4564 as well as ENG Form 1685. Two linear regressions were performed for each activity to determine the fixed cost per office, the cost per unit, the fixed man-years per office, and the number of man-years per unit required for a typical performance center to accomplish the activity. A linear regression involves finding the straight line approximation which best fits a collection of data points. The fixed cost and fixed man-years per office derived by linear regression represent the costs and manpower required to open a performance center and provide the capability to perform an activity. The cost per unit and man-years per unit are performance rates for accomplishing a given workload. The system values for each activity for FY75 data are illustrated in Table 2. Figure 6 is the graph of the linear approximation to the FY75 cost data points for Project Planning. Instructions for performing a linear regression are explained in most elementary statistics texts. Many hand-held calculators have this capability already programmed for use.



Table 2

## System Values (FY75 Data)

Item	Activity	Cost/Unit	Man-Yr/Unit	No. of Trip	Fixed Cost/ Office	Fixed Man- Yr/Office	Av. Wage/Day
	Acquisition	1430.110	.058	3.000	136688.190	3.630	61.47
	Compliance	10.0	0.0003	0.20	6369.	.26	61.47
	Disposal	161.000	.007	1.000	6394.000	.754	61.47
	Inleasing	239.0	0.14	1	10650.	.273	61.47
	Outgranting	182.0	0.010	0.25	9056.	.05	61.47
	Project Planning	657.0	0.030	10.	31161.	1.104	61.47
	Relocation Assistance	310.000	.022	2.000	19960.000	1.41	61.47
	Utilization	58.000	.022	0.100	3612.000	.240	61.47

# PROJECT PLANNING

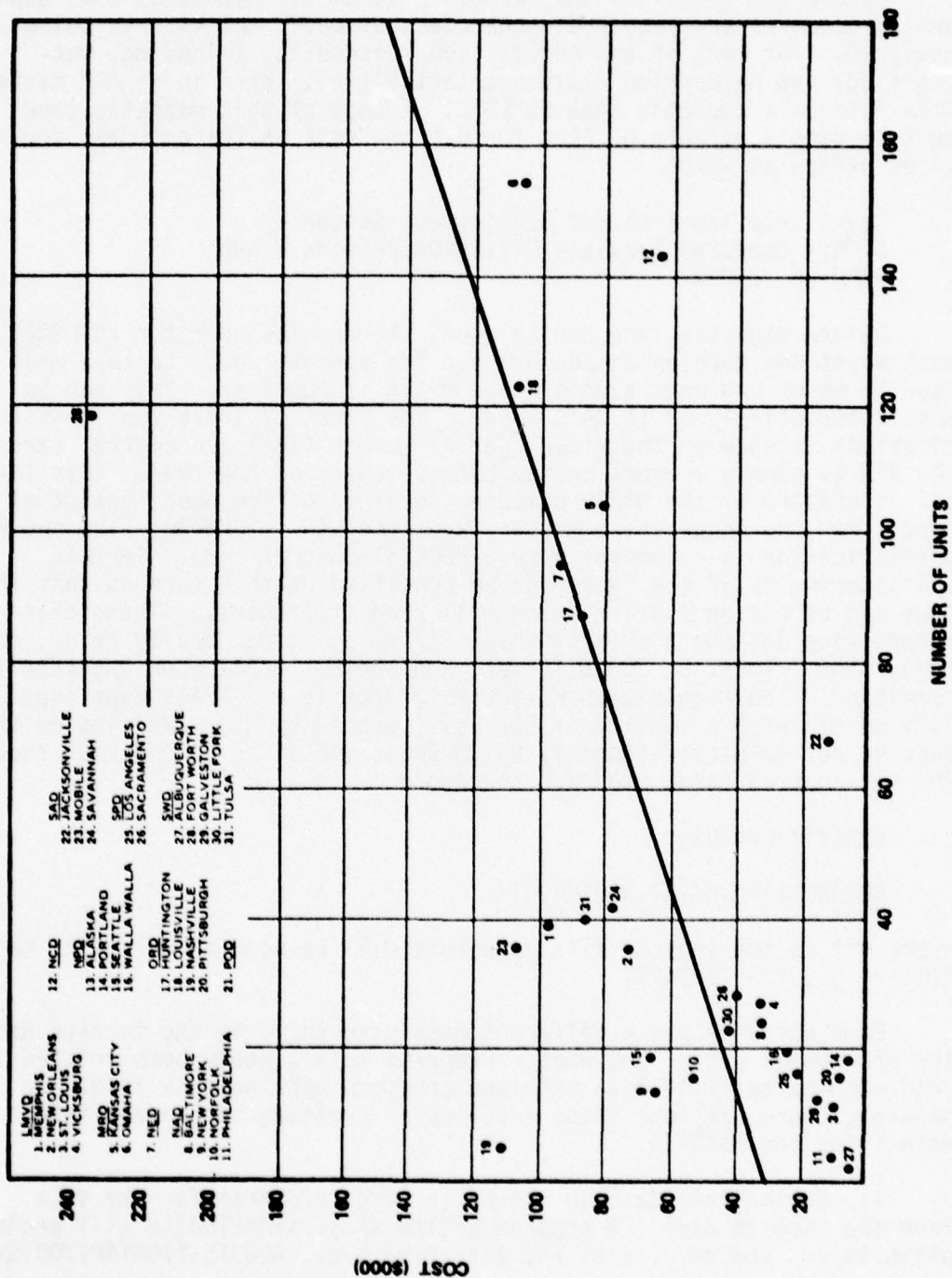


Figure 6. Linear approximation of the FY75 cost data points for Project Planning.

## MAPDATA Data

Before the user runs the MAPDATA program for new data, some general procedures are required, regardless of which activity is being analyzed. For each of the Acquisition, Disposals, Inleasing, Out-granting, and Relocation Assistance activities, there is an ADP Master Data File on a magnetic tape at EDPC. A copy of this magnetic tape must be made available by EDPC for use and sent to the computer services office at NSRDC:

Naval Ship Research and Development Center  
ATTN: Computer Services Office/Operations Group  
WASH DC 20007

Before magnetic tape can be used, the machine operator at NSRDC must mount the tape on a tape drive. The operator must be told what tape to mount and what kind of tape drive it requires. This can be done interactively or in BATCH mode. The first of these two identifications is done by the Visual Serial Number (VSN) job control card. The VSN is simply a label on the outside cover of the tape. This label is created by the NSRDC computer services office upon receipt of tape. For the Acquisition Master Tape, the VSN is CK0103. The second identification is accompanied by a REQUEST control card. Certain characteristics of the tape must be specified on this card so that the tape can be put on a drive which will read it properly. These characteristics include number of tracks (7 or 9), tape density (e.g., 556 bpi), short, long, or SCOPE format, and whether writing on the tape is permitted. The Acquisition Master File tape is a 7-track tape (specify by MT) with a density of 556 bpi (specify by HI). Writing on the tape is not permitted (specify by NORING), and it is an S format tape. The two control cards used are therefore

VSN(\*\*\*=CK0103)

REQUEST(\*\*\*,MT,HI,NORING,S)

where \*\*\* is the logical file name that will be used to work with this file; e.g., \*\*\* is TAPE1.

Each activity has a different data structure, so the formats and the procedures differ somewhat. Programs have already been written to read each master file data tape and create a working disk file. In general, there are four steps involved in creating the appropriate data files for MAPDATA.

1. Unblock the data in the Master Tape and transfer the data from the tape to disk. A program called xx...xTAPETODISK will accomplish this. The xx...x is the activity; e.g., ACQUISITIONTAPETODISK.

2. Retrieve the relevant data from the disk and write it in a



format acceptable to MAPDATA. A program called CREATExx....xMASTER will do this; e.g., CREATEACQUISITIONMASTER.

3. Sort the retrieved data either by project identification or the name of the activity location (nearest city, base, etc.). A program called SORTxx....xMASTER does this; e.g., SORTACQUISITIONMASTER.

4. Shorten the data file obtained in 3 by a program called CRUNCHA, where A represents the first letter in Inleasing, Utilization, or Compliance (Outgranting also uses CRUNCHC). This program totals the workload of the same type of unit for all records with the same activity location name; e.g., if there are 15 new leases in Chicago in the Inleasing data file, . . . CRUNCHI will produce one record with a 15 in it, rather than the original 15 separate records. Whenever the master file is very large, this step can save considerable computing time for MAPDATA and processing time for MAP, but it is not a necessity.

Only five ADP activity master tapes at EDPG are used. Pre- and Post-Condernation Acquisition master files are created from the Acquisition master tape, Compliance is created from the Outgranting master tape, and Utilization is created from the Inleasing master tape. A separate data base which does not require these four steps has been developed for the Project Planning activity.

Once the sorted master file (shortened or not) is established, it must be cataloged under the name AMSYR, where A and YR are again the Activity and fiscal YeaR parameters for the BEGIN command; e.g., IMS5 is the sorted Inleasing master file for FY75.

The job control cards for running the programs used in each of these steps for each of the eight activities (except Project Planning) are included in Appendix D.

Eventually EDPG will create the sorted master files (shortened or not) and these steps will not be required of the user.

The second major input file for MAPDATA is a latitude/longitude file for each activity. This is a list of all the activity location names (cities, installations, nearest city to a project, etc.) along with the appropriate latitude and longitude of that location. This file is used to associate a latitude/longitude with each record in the activity master file.

To create this file, a program called ACITY retrieves all the location names which appear in the master tape for activity A. This temporary file may be sorted alphabetically by a program called SORTxx....xLATLONG. For some of the activities, the temporary file is already sorted. Duplication of names can be eliminated by using the program ACDELIM. A printout of this reduced file is then used as a

working file for the user to determine the latitude and longitude of each location by means of the National Atlas, maps, or asking the Districts (estimates to nearest half degree are sufficient). This information must then be keypunched to create the Activity, Latitude and Longitude, Sorted file, cataloged as ALLS (A is the BEGIN parameter). These files have already been created and cataloged for each activity (except Project Planning) through the end of FY75. The user should not have to recreate them, only augment or update them.

MAPDATA merges ALLS and AMSYR and prints out a list of activity names from AMSYR which were not matched with any location on ALLS. Since the latitude/longitude files have already been created, running MAPDATA will produce the unmatched activity locations. Hence, all the user has to do to update the file is to determine locations for those unmatched ones and enter the data onto the data file. Since Utilization and Inleasing records are both retrieved from the Inleasing Master tapes, there is a common latitude/longitude file. The same is true for Compliance and Outgranting. Pre- and Post-Condensation Acquisition activity locations also are in a common file. Project Planning does not need a latitude/longitude file, because the latitudes and longitudes were coded directly into the Project Planning master file. MAPDATA still should be run for Project Planning, but in this case the merger of PLLS and PMSYR is by-passed. Consequently, there would be no unmatched records. Samples of the ALLS and AMS5 files and the data formats for each, as well as the output of MAPDATA, called ANSM, are given in Appendix E.

There are two techniques for entering data onto the ALLS files. Cards for new records can be keypunched and BATCH input to NSRDC as an intermediary file, which could then be merged with the old file, resorted, and recataloged as ALLS with a higher cycle number. Figure 7 is a sample portion of the ILLS file. Figure 8 illustrates a sample set of punched cards to be input. Figure 9 shows the job control cards to merge the new cards with the old file. Figure 10 is the resulting ILLS file with a higher cycle number.

**WARNING:** The ALLS and AMSYR files must be sorted before running MAPDATA. Whenever changes are made to either file which cause them to become unsorted, SORTxx....xLATLONG and SORTxx....xMASTER must be run to resort the files.

The other technique uses an interactive mode known as the EDITOR. This is an expensive technique and should be used only when relatively few changes are to be made.

Two examples using the EDITOR are illustrated in Figures 11 and 12; one for updating ILLS as with cards, the other by creating two additional lines of data at the end of the existing file. Figure 13 illustrates the sorting technique for both examples. Figure 14 is the resulting ILLS.

ABBEVILLE	222958 9208
ABERDEEN	373508 7925
ABERDEEN	464528 9829
ABERDEEN	53465912350
ABILENE	483228 9943
ACEY	53
ADAMS CO	08394010455
ADA	403446 9641
ADDISON	174156 8759
ADRIAN	264154 8402
AFFTON	293833 9020
AFTON	403641 9458
AGANA GUAM	GQ
AGUADILLA ST	PRRQ
AGUADILLA	RQ
AIKEN	453334 8143
AJO	04322211252
AKRON	394105 8131
ALAMANCE COUNTY	373610 7929

Figure 7. Sample portion of ILLS file.



013134 8515

37714338

[illegible]

**Figure 8.** Sample set of punched cards to be input.

PHJ, CH4500, T20, F3.

[illegible]

**Figure 9. Job control cards to merge new cards with the old file.**

THIS PAGE IS BEST QUALITY PRACTICABLE  
FROM COPY FURNISHED TO DDC

ABBEVILLE	222958 9208
ABERDEEN	373508 7925
ABERDEEN	464528 9829
ABERDEEN	53465912350
ABILENE	483228 9943
ACEY	53
ADAMS CO	08394010455
ADA	403446 9641
ADDISON	174156 8759
ADRIAN	264154 8402
AFFTON	293833 9020
AFTON	403641 9458
AGANA GUAM	GQ
AGUADILLA ST	PRRQ
AGUADILLA	RQ
AIKEN	453334 8143
AJO	04322211252
AKRON	394105 8131
ALAMANCE COUNTY	373610 7929
ABBEVILLE	013134 8515
AGAWAN	254205 7236

Figure 10. Resulting ILLS file.



THIS PAGE IS BEST QUALITY PRACTICABLE  
FROM COPY FURNISHED TO DDC

# COMMAND-EDITOR

```

..creat
    100=abbeyville      013134 8515
    110=agawan          254205 7236
    120==
..1,a

    100=ABBEVILLE      013134 8515
    110=AGAWAN          254205 7236
..s,t3,n
..b
COMMAND- request,temp,*pf.
COMMAND- attach,t1,ills,id=puaj
PF CYCLE NO. = 002
COMMAND- copycr,t1,temp2.
COMMAND- copycr,t3,temp2.
COMMAND- rewind,temp2.
COMMAND- combind,temp2,temp.
NO SUCH PROGRAM CALL NAME - COMBIND
COMMAND- combine,temp2,temp.
WRONG NUMBER OF PARAMETERS
COMMAND- combine,temp2,temp,2.
COMMAND- catalog,temp,unsornewlls,id=puaj
INITIAL CATALOG
RP = 030 DAYS
CT ID=      PUAJ PFN= UNSORNEWLLS
CT CY= 001 00000001 PRUS $0000.00 /DAY
COMMAND- page,temp
Ready..
1

```

```

ABBEVILLE      222958 9208
ABERDEEN        373508 7925
ABERDEEN        464528 9829
ABERDEEN        53465912350
ABILENE         483228 9943
ACEY            53
ADAMS CO        08394010455
ADA             403446 9641
ADDISON         174156 8759
ADRIAN          264154 8402
AFFTON          293833 9020
Line           1
+

```

```

AFTON           403641 9458
AGANA GUAM      GQ
AGUADILLA ST PRRQ
AGUADILLA       RQ
AIKEN           453334 8143
AJO             04322211252
AKRON           394105 8131
ALAHANCE COUNTY 373610 7929
ABBEVILLE      013134 8515
AGAWAN          254205 7236
(eor )
Line           12

```

Figure 11. Example of using EDITOR.

THIS PAGE IS BEST QUALITY PRACTICABLE  
FROM COPY FURNISHED TO DDC

LOGIN            UPDATED 05/27/77    TODAY IS 06/14/77  
6600 INTERACTIVE ACCESS, PRINT SYSBULL(BATCH)

COMMAND- attach,w1,ills,id=pua  
PF CYCLE NO. = 002  
COMMAND- editor  
..e,w1,s  
..l,all

100=ABBEVILLE	222958 9208
110=ABERDEEN	373508 7925
120=ABERDEEN	464528 9829
130=ABERDEEN	53465912350
140=ABILENE	483228 9943
150=ACEY	53
160=ADAMS CO	08394010455
170=ADA	403446 9641
180=ADDISON	174156 8759
190=ADRIAN	264154 8402
200=AFFTON	293833 9020
210=AFTON	403641 9458
220=AGANA GUAM	GQ
230=AGUADILLA ST	PRRQ
240=AGUADILLA	RQ
250=AIKEN	453334 8143
260=AJO	04322211252
270=AKRON	394105 8131
280=ALAMANCE COUNTY	373610 7929

..a,290

290=abbeyville	013134 8515
300=agawan	254205 7236
310=	

..s,w2,n

..catalog,w2,unsornewlls,id=pua

INITIAL CATALOG

RP = 030 DAYS

CT ID= PUAJ PFN=UNSORNEWLLS

CT CY= 001 00000001 PRUS \$0000.00 /DAY

Figure 12. Second example of using EDITOR.

THIS PAGE IS BEST QUALITY PRACTICABLE  
FROM COPY FURNISHED TO DDG

```
100=PWSCM,CM100000,T75,P4.
110=CHARGE,PUAJ,1189043801,RS.I.
120=FTN,OPT=2.
130=ATTACH,TAPE1,UNSORNEWLLS,ID=PUAJ.
140=REQUEST(TAPE5,*PF)
150=LIBRARY(COBOL)
160=RFL,100000.
170=LGO.
180=REDUCE.
190=CATALOG,TAPE5,ILLS,ID=PUAJ.
200=      PROGRAM SORT(TAPE1,TAPE5,OUTPUT,TAPE7=OUTPUT)
210=      CALL SMSORT(26)
220=      CALL SMFILE("SORT","CODED",1,"REWIND")
240=      CALL SMFILE("OUTPUT","CODED",5,"REWIND")
250=      CALL SMKEY(1,1,17,0,"DISPLAY","DISPLAY","A")
260=      CALL SMEND
270=5     WRITE(7,100)
280=100   FORMAT(* NORMAL COMPLETION*)
290=      STOP
300=      END
```

Figure 13. Example of sorting techniques using EDITOR.



COMMAND- page,w3

Ready..

1

ABBEVILLE	013134 8515
ABBEVILLE	222958 9208
ABERDEEN	373508 7925
ABERDEEN	464528 9829
ABERDEEN	53465912350
ABILENE	483228 9943
ACEY	53
ADAMS CO	08394010455
ADA	403446 9641
ADDISON	174156 8759
ADRIAN	264154 8402

Line 1

+

AFFTON	293833 9020
AFTON	403641 9458
AGANA GUAM	GQ
AGAWAN	254205 7236
AGUADILLA ST PRRQ	
AGUADILLA	RQ
AIKEN	453334 8143
AJO	04322211252
AKRON	394105 8131
ALAMANCE COUNTY	373610 7929

{eor }

Line 12

Figure 14. Resulting ILLS file after sorting.

If the user desires to have a printed copy of any of the data files or programs, they can be batch printed interactively or sent to be printed elsewhere.

To batch lengthy printouts to any other terminal, as mentioned in Chapter 3, p 17, the following commands are sent after LOGIN:

COMMAND- ATTACH,FILE,ID=PUAJ

COMMAND- COPYSBF,FILE,DUMMY

COMMAND- REWIND,DUMMY

COMMAND- BATCH,DUMMY,PRINT,\_\_,NAME.

(NAME is a four-character identification code and \_\_ is a two-character USER-ID code for a receiving terminal)

COMMAND- LOGOUT

To batch print at the user's terminal for shorter printouts, after the ATTACH command, the user types

COMMAND- CONNECT,OUTPUT

COMMAND- COPYSBF,FILE,OUTPUT

The terminal will automatically print out FILE; the user can then logout. Figure 15 is an example of an interactive printout of the PMS5 file. Notice that only 72 characters were printed in one line and the rest of the latitude/longitude numbers were printed on the next line. The entire PMS5 file would have been printed if the ESCAPE key and "%A" had not been typed in the middle of the printout. The computer reprinted the entire line during which it was interrupted, and then indicated USER ABORT and asked for the next COMMAND.

#### Additional Instructions

While working with the CDC 6700 computer at NSRDC, the user may have many programs and data files available in permanent disk storage. These files have been cataloged as permanent files. Usually there is a retention period of 30 days assigned to a newly cataloged file, which means that if the file is not attached for 30 consecutive days, it will be taken off the disk and archived on magnetic tape at NSRDC. The file is not lost, but it cannot be attached automatically with a COMMAND statement. The user would have to call NSRDC User Services 202-227-1907,\* explain the necessity of the file, and request that it

\*This phone number is subject to change.

NSRDC 6600 INTERCOM U4.5

DATE 06/14/77

TIME 17.11.50.

LOGIN,PUAJDAVIDS,1189043801

06/14/77 LOGGED IN AT 17.12.11.

WITH USER-ID 0U

EQUIP/PORT 02/027

LOGIN UPDATED 05/27/77 TODAY IS 06/14/77

6600 INTERACTIVE ACCESS, PRINT SYSBULI (BATCH)

COMMAND- ATTACH,PMS5,ID=PUAJ

PFN IS PMS5

PF CYCLE NO. = 001

COMMAND- CONNECT,OUTPUT

COMMAND- COPYSBF,PMS5,OUTPUT

M5237220	R 175CLAYTON	CLAYTON LAKE	OK3
435 9521			
M5237220	S 175CLAYTON	CLAYTON LAKE	OK3
435 9521			
M5237220	O 375CLAYTON	CLAYTON LAKE	OK3
435 9521			
M5237	R 175COLGATE	PARKER RESERVOIR	OK
M5237	R 175DURANT	ALBANY LAKE	OK3
360 9623			
M5237	R 175DURANT	CENTRAL OKLAHOMA	OK3
360 9623			
M5237424	R 175PONCA CITY	K% A	OK3
M5237424	R 175PONCA CITY	KAW LAKE	OK3

USER ABORT

COMMAND- LOGOUT

Figure 15. Example interactive printout of the PMS5 file.



be taken out of the archives and placed back on the disk. The user will have to identify the file by its permanent file name and the date of its last attachment. An extra charge will be assessed for this service.

The user can obtain a list of all the permanent files currently on the disk by running an AUDIT of the files. After LOGIN, the user types

COMMAND- CONNECT,OUTPUT

COMMAND- AUDIT,ID=PUAJ,AC=1189043801,AI=I

The complete audit file will then be printed on the user's terminal. If it is preferable to have it printed elsewhere, the user would not connect OUTPUT, but would run the AUDIT command and batch print the output elsewhere by typing

COMMAND- BATCH,OUTPUT,PRINT,\_\_,NAME.

From the printout, the user may identify which files have not been attached for some time and proceed to attach them. However, since the quantity of files is large, a short program has been written to accomplish the attaching of all the files. It is called ATTACHPF and can be used as follows after LOGIN,

COMMAND- AUDIT,ID=PUAJ,AC=1189043801,AI=I

COMMAND- REWIND,OUTPUT

COMMAND- ATTACH,AGO,ATTACHPF,ID=PUAJ

COMMAND- AGO.

COMMAND- REWIND, TAPE5

COMMAND- BATCH, TAPE5, INPUT, HERE

The ATTACHPF program will attach everything in disk storage under the user ID=PUAJ, including the NC, OF, NF, and DN files which were cataloged during REMAP analyses. Since storage charges can mount up, the user should judiciously remove from storage files which are no longer needed. Files can be removed by means of the PURGE command, but care must be exercised to insure that THE MAIN PROGRAMS USED IN REMAP ARE NEVER PURGED. A list of these necessary program names can be found in Appendix F. Suppose the user no longer needed a file named OLDFILE and wanted to PURGE this file; after LOGIN, the user would type

COMMAND- ATTACH,OLDFILE,ID=PUAJ

COMMAND- PURGE,OLDFILE,ID=PUAJ

When OLDFILE was attached, it was a permanent file. It would show up in the local files as \*OLDFILE; after purging, the asterisk is removed and OLDFILE becomes a local file. Thus, if the user accidentally purges the wrong file, it still exists as a local file and can be recataloged as permanent by typing

COMMAND- REQUEST,TEMP,\*PF

COMMAND- COPYCR,OLDFILE,TEMP

COMMAND- REWIND,TEMP

COMMAND- CATALOG,TEMP,OLDFILE,ID=PUAJ

However, if the user logs out or is disconnected while OLDFILE is a local file, it will be permanently erased and lost.

## 5 CONCLUSIONS

This report has described operating procedures and input preparation for a model developed to evaluate alternate assignments of real estate activity locations to existing and/or new locations of Division, District, field, and project offices. The model, entitled Real Estate Model of Activity Performance (REMAP), can provide users with expected activity workloads, performance costs, and manpower requirements for selected assignments of nine real estate activities. The REMAP evaluation procedures can be used by DAEN-RE in its analysis and management of field organization options.



APPENDIX A:

DIVISION CODES

AØ	Lower Mississippi Valley Division (LMVD)
CØ	Missouri River Division (MRD)
DØ	New England Division (NED)
EØ	North Atlantic Division (NAD)
FØ	North Central Division (NCD)
GØ	North Pacific Division (NPD)
HØ	Ohio River Division (ORD)
KØ	South Atlantic Division (SAD)
LØ	South Pacific Division (SPD)
MØ	Southwestern Division (SWD)

# APPENDIX B:

## BEGIN PARAMETERS

Name	Symbol	Values	Definition	Restrictions
Activity	A	A - Acquisition (Pre) B - Acquisition (Post) C - Compliance D - Disposals I - Inleasing O - Outgranting P - Project Planning R - Relocation Assistance U - Utilization		No default value. One of these values must be specified.
Type	T	1 - Existing and Closest Assignments 2 - Partial Reassignment 3 - Assignment based on State Boundaries		One of the values must be specified. T = 3 can be used only with Activities A, B, I and P.
Year	YR	0-9	Last digit in the fiscal year	A value must be specified. Data exist for FY75, 76.
List	L	C - Create a list of centers. N - No change to an existing list. AD - Add to an existing list.		Default value is N. If L=C, then user must define a unique name for NC.
Run	R	Y-Yes N-No	Will MAPDATA be run?	Default value is N. If L≠N, then R=Y. If R=Y, then user must define unique names for NF and DN.

Name	Symbol	Values	Definition	Restrictions
Write	W	Y-Yes N-No	Will OUTPUT be written directly on the user's terminal?	Default value is N.
Old Centers	OC	These are permanent file names, and are alpha-numeric words of seven characters.		First character is alphabetic. Default name for OC is EXDDF. Default value for NC is EXDD2, which is a duplicate copy of EXDDF. NF and DN must be specified.
New Centers	NC			
Name of File	NF			
Division Names	DN			



APPENDIX C:

COMPLETE INTERACTIVE RESPONSES TO  
EXAMPLE PROBLEMS

Example 1

NSRDC 6600 INTERCOM V4.5  
DATE 06/27/77  
TIME 16.28.34.  
loginpuaj,1189043801  
FORMAT ERROR  
READY..login,puajdavids,1189043801

06/27/77 LOGGED IN AT 16.29.17.  
WITH USER-ID 0U  
EQUIP/PORT 02/024

LOGIN UPDATED 05/27/77 TODAY IS 06/27/77  
6600 INTERACTIVE ACCESS, PRINT SYSBULL(BATCH)

COMMAND- attach,f,profile,id=puaj  
PF CYCLE NO. = 002  
COMMAND- et1,500  
COMMAND-begin(ex,f,a=i,t=1,yr=6,r=y,nf=inlex,dn=inlexdn)  
PF CYCLE NO. = 001  
PF CYCLE NO. = 002  
PF CYCLE NO. = 003  
PF CYCLE NO. = 004  
PF CYCLE NO. = 001  
PF CYCLE NO. = 002

WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,  
NO. OF TRIP,FIXED COST/OFFICE,FIXED MAN YR/OFFICE,AVG WAGE/DAY?  
IF YES TYPE Y;OTHERWISE TYPE N:

CM LWA+1 = 21251B, LOADER USED 33300Bn  
WANT TO DELETE ANY DISTRICT? TYPE Y OR N:n  
THANK YOU.

STOP  
.076 CP SECONDS EXECUTION TIME  
CM LWA+1 = 26246B, LOADER USED 40300B  
STOP

131.953 CP SECONDS EXECUTION TIME  
NEWCYCLE CATALOG  
RP = 030 DAYS  
CT ID= PUAJ PFN=INDEX  
CT CY= 002 00000281 PRUS \$0000.70 /DAY  
NEWCYCLE CATALOG  
RP = 030 DAYS  
CT ID= PUAJ PFN=INLEXDN

CT CY= 002 00000004 PRUS \$0000.01 /DAY  
PF CYCLE NO. = 002  
CM LWA+1 = 37151B, LOADER USED 51200B  
END IMAPI  
32.185 CP SECONDS EXECUTION TIME  
COMMAND- rewind,output  
COMMAND- batch,output,print,yx,chun  
FILE ICHUN28 SENT, DC=PR

THIS IS A TYPE 1 MAPDATA PROGRAM FOR INLEASING ACTIVITY.

THE FOLLOWING OFFICES ARE USED FOR ASSIGNMENT:

A0	LMVD
A1	MEMPHIS
A2	NEW ORLEANS
A3	ST. LOUIS
A4	VICKSBURG
C0	MRD
C1	KANSAS CITY
D0	NED
D1	BOSTON
E0	NAD
E1	BALTIMORE
E3	NEW YORK
E4	NORFOLK
E5	PHILADELPH
F0	NCD
F2	CHICAGO
G0	NPD
G2	PORTLAND
G3	SEATTLE
G4	WALLA WALL
H0	ORD
H1	HUNTINGTON
H2	LOUISVILLE
H3	NASHVILLE
H4	PITTSBURGH
K0	SAD
K3	JACKSONVIL
K5	MOBILE
K6	SAVANNAH
L0	SPD
L1	LOS ANGELE
L2	SACRAMENTO
M0	SWO
M1	ALBUQUERQU
M2	FT. WORTH
M3	GALVESTON
M4	LITTLE ROC
M5	TULSA



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THE FOLLOWING MASTER FILE RECORDS HAVE NOT BEEN ASSIGNED DUE TO ONE OF THE FOLLOWING REASONS  
1. NO MATCH WAS FOUND FOR THIS RECORD IN THE LAT/LONG FILE  
2. THE DIV/DIST CODE FOR THIS RECORD WAS NOT FOUND IN THE DIVDISTOFFICEDATA FILE

AGANA GUAM	00	ZZ R
ALAMOGORDO	4R	M1 R
ALDENVILLE	42	E1 N
ALEXANDRIA	4R	M2 R
ANGLETON TX	4R	M3 N
ANNE ARUNDEL	24	E1 N
ANSAS CITY	20	C1 N
ARNOLD	29	C1 N
ASHFORD	09	E3 N
ATCHISON	29	C1 N
BALROA	PD	Z7 R
BARRINGTON	33	E3 N
BERLIN	50	E3 N
BOLIVAR	54	E1 N
BRANDON	47	K5 N
CANFIELD	39	E1 N
CANOGA PARK	06	L1 N
CARLE PLACE	36	E3 N
CHAPLIN	09	E3 N
CHAS HEIGHTS	45	K6 N
CLARKSVILLE	1R	C2 N
CODY	21	M2 N
COLCHESTER	50	E3 N
COLONIE	36	E3 N
CORINTHA CORN	2R	M3 R
DODGE CITY	29	C1 N
DORCHESTER	25	E3 N
DOUGLASSVILLE	42	E1 N
EAGAN	27	C2 N

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EAGAN	27	CP R
EASTHAM	25	E3 N
EDWARDSVILLE	42	E1 N
EGAN	27	C2 N
ENON	39	E1 N
ETROIT	26	C2 N
FAIRBANKS ALS	02	G1 N
FALLINGWATERS	54	E1 N
FALLON	06	L2 N
FORESTPORT	36	E3 N
FT LAUDERHILL	12	K5 N
GAMBRA	00	K5 R
GLENDALE	54	E1 N
GRAND BAHAMA ISNF		K3 R
GR COVE SPRINGS12		K5 N
HARBWOOD MINES	42	E1 N
HENDLE	29	C1 N
HONOLULU/HAW	15	27 R
HONOLULU	15	27 N
HONOLULU	15	27 R
HOPKINSVILLE	42	E1 N
ILADELPHIA PENNA2		E5 N
JACK	01	K5 R
JAMATCA	36	E3 N
JONESBORO	47	K5 N
JUNEAU ALS	02	G1 N
KAWAII OA/HONO	15	27 N
KEARSARGE	26	C2 N
KNOXVILLE	27	K5 R
KODIAK ALS	02	G1 N
LAGRANGE	13	K6 R
LAKEHEAD	06	L2 N
LAKE KATRINE	36	E3 N

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LA VISTA	31	C2 N
LEMONTE FURNACE	42	E1 N
LOUISVILLE	47	K5 R
LOWELL	37	K6 N
MABSCOTT	54	E1 N
MADISON TOWNSHIP	34	E3 N
MAPLETON	38	C2 N
MARSHFIELD	25	E3 N
MARYVILLE	37	K5 R
MASON CITY	18	C2 N
MECHANICAL	36	E3 N
METFAD	12	K5 R
MIRALESTE	06	L1 N
MOLINE ACRES	29	C1 N
MONROE	42	E1 N
NASHVILLE	12	K5 R
NASHVILLE	48	K5 N
NEW HOPE	51	E1 N
N CAR	37	K6 N
OFALLON	29	C1 N
OKLAHOMA CITY	32	M1 R
ONESBORO	05	M4 N
ON	01	K5 R
PANAMA CITY	PM	Z7 N
PARLIN	34	E3 N
PENACOOK	33	E3 N
PISCATAWAY	34	E3 N
PLAINVILLE	09	E3 N
PORT RICHEY	12	K5 N
POWELL	47	K5 R
REISTERSTOWN	24	E1 N
RIDGWAY	42	E1 N
RODMAN	PO	Z2 N



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POWLAND HEIGHTS06	L1 N
SALT LAKE CITY 49	L2 N
SANDY 49	L2 N
SERGEANT BLUFF 19	C2 R
SCOTLAND 09	E3 N
SCOTTSVILLE 36	E3 N
SEWARD ALASKA 02	G1 N
SEWARD A15 02	G1 N
SHARRONA 17	C2 N
SHORT CREEK 39	E1 R
SIERRA 32	M1 R
SOMERS POINT 34	E3 N
SOMERS PT 34	E3 N
SPANISH FORK 49	L2 N
STAFFORD 36	E3 N
STOW 39	E1 N
SWOYERSVILLE 42	E1 N
TARZANA 06	L1 N
TEMPLE TERRACE 12	K5 N
TIERPA DEL MAR 41	G3 N
TIGRETT 47	K5 N
TOPEKA 29	C1 N
TRAVERSE 26	C2 N
TUJUNGA 06	L1 N
ULSA OKLA 40	M5 N
WAHIAWA/HONO 15	Z2 N
WAHIAWA/HONO 15	Z2 R
WALWORTH 36	E3 R
WATERFORD 09	E3 N
WATSON 26	C2 R
WESLACO TX 48	M3 N
WESTHAMPTON BEACH36	E3 N
WESTPORT 25	E3 N

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WEST GORHAM	23	E3 N
WEST WILLINGTON	09	E3 N
NDE	04	L1 N
SAN JOSE	06	L2 N

END OF LAT/LONG FILE  
RECORDS READ 3607  
RECORDS WITH LAT/LONG OUT OF RANGE 382  
RECORDS WHICH WERE NOT MATCHED 1788

END OF MASTER FILE ENCOUNTERED  
MASTER FILE RECORDS READ. 1763  
MASTER FILE RECORDS WHICH WERE NOT MATCHED 132

NUMBER OF RECORDS WRITTEN IS 1631

THIS IS A TYPE 1 MAP PROGRAM FOR INLEASING ACTIVITY

THE FOLLOWING VALUES ARE USED IN THE PARAMETERS:

COST/UNIT= 239.000  
MAN YR/UNIT= .140  
NO. OF TRIP= 1.000  
FIXED COST/OFFICE= 10650.000  
FIXED MAN YR/OFFICE= .273  
AVG WAGE/DAY= 61.470

3262 RECORDS READ FROM THE MASTER FILE

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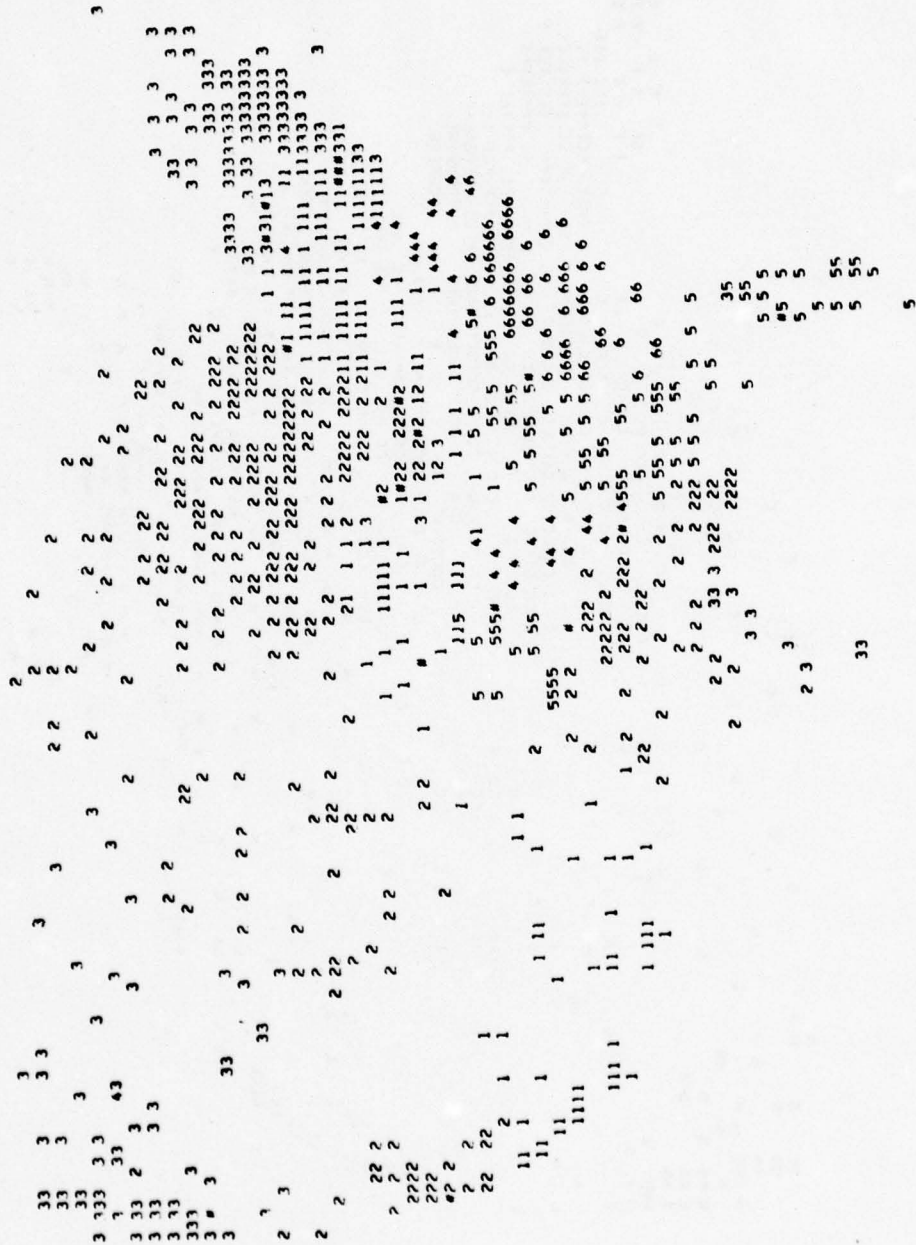
MAP OF EXISTING DIVISION ASSIGNMENTS





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MAP OF EXISTING DISTRICT ASSIGNMENTS



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MAP OF DIVISION ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE

Map showing division assignments using the closest open district office. The map displays a grid of letters (G, C, F, D, E, M, K, L) representing different divisions or districts, arranged in a pattern that suggests geographical boundaries or administrative regions. The letters are distributed across the map, with some areas showing higher concentrations of certain letters, indicating specific divisions or offices.

MAP OF DISTRICT ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE

76



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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT OF THE EXISTING DISTRICT OFFICE

DIVISION	INCREASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A: LMVO				
	R	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A1 AT MEMPHIS		1	10889.00	.41
	N	4	956.00	.56
ACT TOTAL		4	956.00	.56
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A2 AT NEW ORLEAN		4	11606.00	.83
	N	4	956.00	.56
	R	1	239.00	.14
ACT TOTAL		5	1195.00	.70
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A3 AT ST. LOUIS		5	11845.00	.97
	N	13	3107.00	1.82
	R	2	478.00	.28
ACT TOTAL		15	3585.00	2.10
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A4 AT VICKSBURG		15	14235.00	2.37
<hr/>				
	N	21	5019.00	2.94
	R	4	956.00	.56
ACT TOTAL		25	5975.00	3.50
ACT FIXED			42600.00	1.09
TOTAL FOR THE DIVISION		25	48575.00	4.59
<hr/>				
C1: MND				
	N	85	20315.00	11.90
	R	35	8365.00	4.90
ACT TOTAL		120	28680.00	16.80
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT C1 AT KANSAS CIT		120	39330.00	17.07

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	N	564	134796.00	78.06
	R	271	64769.00	37.94
ACT TOTAL		835	199565.00	116.00
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT C2 AT OMAHA		835	210215.00	117.17

	N	649	155111.00	90.86
	R	306	73136.00	42.84
ACT TOTAL		955	228245.00	133.70
ACT FIXED			21300.00	.55
TOTAL FOR THE DIVISION		955	249545.00	134.25

D: NED				
ACT TOTAL		0	0.00	0.00
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT D1 AT BOSTON		0	10650.00	.27

ACT TOTAL		0	0.00	0.00
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		0	10650.00	.27

E1 N40				
	N	351	83880.00	49.14
	R	17	4043.00	2.38
ACT TOTAL		368	87922.00	51.52
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT E1 AT BALTIMORE		368	98572.00	51.79

	N	449	107311.00	62.86
	R	20	4780.00	2.80
ACT TOTAL		469	112091.00	65.66
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT F3 AT NEW YORK		469	122741.00	65.93

	N	45	10755.00	6.30
ACT TOTAL		45	10755.00	6.30
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT E4 AT NORFOLK		45	21405.00	6.57

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	N	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT E5 AT PHILADELPH		1	10889.00	.41

	N	846	702194.00	118.44
	R	37	8463.00	9.18
ACT TOTAL		883	211037.00	123.62
ACT FIXED			42600.00	1.09
TOTAL FOR THE DIVISION		883	253637.00	124.71

F1 NCD				
	N	5	1195.00	.70
	R	8	1912.00	1.12
ACT TOTAL		13	3107.00	1.82
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT F2 AT CHICAGO		13	13757.00	2.09

	N	5	1195.00	.70
	R	8	1912.00	1.12
ACT TOTAL		13	3107.00	1.82
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		13	13757.00	2.09

G1 NPD				
	N	2	478.00	.28
ACT TOTAL		2	478.00	.28
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT G2 AT PORTLAND		2	11128.00	.55

	N	191	45649.00	26.74
	R	19	4561.00	2.66
ACT TOTAL		210	50190.00	29.40
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT G3 AT SEATTLE		210	60840.00	29.67

	N	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT G4 AT WALLA WALL		1	10889.00	.41



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	N	194	44346.00	27.16
	N	19	4541.00	2.66
ACT TOTAL		213	50907.00	29.82
ACT FIXED			31950.00	.82
TOTAL FOR THE DIVISION		213	82857.00	30.64

M1 OHIO				
ACT TOTAL		0	0.00	0.00
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT M1 AT HUNTINGTON		0	10650.00	.27

	N	4	956.00	.56
ACT TOTAL		4	956.00	.56
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT M2 AT LOUISVILLE		4	11606.00	.83

	N	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT M3 AT NASHVILLE		1	10889.00	.41

	N	2	478.00	.28
ACT TOTAL		2	478.00	.28
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT M4 AT PITTSBURGH		2	11128.00	.55

	N	7	1673.00	.98
ACT TOTAL		7	1673.00	.98
ACT FIXED			42600.00	1.09
TOTAL FOR THE DIVISION		7	44273.00	2.07

M1 OHIO				
	R	6	1434.00	.84
ACT TOTAL		6	1434.00	.84
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT M1 AT JACKSONVILLE		6	12084.00	1.11

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	N	276	65446.00	38.36
	H	291	64549.00	40.74
ACT TOTAL				
ACT FIXED		565	135075.00	79.10
			10650.00	.27
TOTAL FOR DISTRICT HS AT MOBILE		565	145625.00	79.37

	N	139	33221.00	19.46
	R	17	4063.00	2.38
ACT TOTAL				
ACT FIXED		156	17284.00	21.84
			10650.00	.27
TOTAL FOR DISTRICT KA AT SAVANNAH		156	47934.00	22.11

	N	413	98707.00	57.82
	H	314	75046.00	43.96
ACT TOTAL				
ACT FIXED		727	173753.00	101.78
			31950.00	.82
TOTAL FOR THE DIVISION		727	205703.00	102.60

L1 CJD				
	N	271	64769.00	37.94
	R	26	6214.00	3.64
ACT TOTAL				
ACT FIXED		297	70983.00	41.58
			10650.00	.27
TOTAL FOR DISTRICT L1 AT LOS ANGELES		297	81633.00	41.85

	N	135	32265.00	18.90
	P	10	2390.00	1.40
ACT TOTAL				
ACT FIXED		145	14655.00	20.30
			10650.00	.27
TOTAL FOR DISTRICT L2 AT SACRAMENTO		145	45305.00	20.57

	N	404	97034.00	56.84
	H	35	8604.00	5.04
ACT TOTAL				
ACT FIXED		442	105638.00	61.88
			21300.00	.55
TOTAL FOR THE DIVISION		442	126938.00	62.43

ME CJD				
	N	18	4302.00	2.52
	R	12	2868.00	1.68
ACT TOTAL				
ACT FIXED		30	7170.00	4.20
			10650.00	.27
TOTAL FOR DISTRICT ME AT ALBUQUERQUE		30	17820.00	4.47

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ACT TOTAL ACT FIXED	N D	114 73	24202.00 17447.00	16.52 16.22
TOTAL FOR DISTRICT #2 AT FT. WORTH	N D	191	45649.00 10650.00	26.74 .27
TOTAL FOR DISTRICT #3 AT GALVESTON	N D	52	12426.00 12426.00	7.28 7.28
TOTAL FOR DISTRICT #4 AT LITTLE ROCK	N D	29	6931.00 10650.00	4.06 .27
TOTAL FOR DISTRICT #5 AT TULSA	N D	42	9540.00 478.00	5.60 .28
TOTAL FOR THE DIVISION	N D	344	58316.00 23900.00	34.16 14.00
COMPLETE TOTAL THIS ASSIGNMENT	N D	3609	1171401.00	513.16



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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT TO THE CLOSEST DISTRICT OFFICE

DIVISION	INLEASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
AT LWO	N	14	1278.86	1.92
	R	8	987.75	1.16
ACT TOTAL				
ACT FIRED		22	2196.11	3.02
TOTAL FOR DISTRICT A1 AT MEMPHIS		22	10650.00	.27
			12836.11	3.29
ACT TOTAL				
ACT FIRED		34	1808.18	4.65
		10	1130.86	1.36
TOTAL FOR DISTRICT A2 AT NEW ORLEANS		44	2938.24	6.03
			10650.00	.27
		44	13588.24	6.30
ACT TOTAL				
ACT FIRED		41	5274.10	5.66
		23	2747.17	3.17
TOTAL FOR DISTRICT A3 AT ST. LOUIS		64	8021.27	6.83
			10650.00	.27
		64	18671.27	9.11
ACT TOTAL				
ACT FIRED		36	4851.40	5.01
		9	1777.46	1.25
TOTAL FOR DISTRICT A4 AT VICKSBURG		45	6629.86	6.26
			10650.00	.27
		45	19279.86	6.53
ACT TOTAL				
ACT FIRED		125	15212.54	17.24
		50	6562.14	6.90
TOTAL FOR THE DIVISION		175	21774.64	24.14
			42600.00	1.09
		175	64374.68	25.23
CT WFO				
		52	12446.89	7.28
		24	5732.83	3.36
ACT TOTAL				
ACT FIRED		76	18130.92	18.64
			10650.00	.27
TOTAL FOR DISTRICT C1 AT KANSAS CITY		76	28780.92	18.91

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K					
ACT TOTAL	185	44159.15	26.03		
ACT FIRED	42	14431.29	11.45		
TOTAL FOR DISTRICT C2 AT OMAHA					
-----					
ACT TOTAL	265	63552.44	37.51		
ACT FIRED		10650.00	.27		
TOTAL FOR DISTRICT C2 AT OMAHA					
-----					
	268	74302.44	37.79		
-----					
N					
ACT TOTAL	238	56566.04	33.31		
ACT FIRED	106	25225.32	14.84		
TOTAL FOR THE DIVISION					
-----					
	344	81791.36	48.15		
		21300.00	.55		
-----					
	344	103091.36	48.70		
-----					
OF					
N					
ACT TOTAL	209	36910.59	24.02		
ACT FIRED	14	2602.74	1.95		
TOTAL FOR DISTRICT D1 AT HASTON					
-----					
	223	39513.33	30.96		
		10650.00	.27		
-----					
	223	50163.33	31.23		
-----					
N					
ACT TOTAL	209	36910.59	24.02		
ACT FIRED	14	2602.74	1.95		
TOTAL FOR THE DIVISION					
-----					
	223	39513.33	30.96		
		10650.00	.27		
-----					
	223	50163.33	31.23		
-----					
E: NAD					
N					
ACT TOTAL	152	36212.62	21.28		
ACT FIRED	5	1195.00	.70		
TOTAL FOR DISTRICT E1 AT BALTIMORE					
-----					
	157	37407.62	21.98		
		10650.00	.27		
-----					
	157	48057.62	22.25		
-----					
N					
ACT TOTAL	183	43495.30	25.62		
ACT FIRED	5	1162.31	.70		
TOTAL FOR DISTRICT E3 AT NEW YORK					
-----					
	188	44657.61	26.32		
		10650.00	.27		
-----					
	188	55307.61	26.59		
-----					
N					
ACT TOTAL	60	11147.95	8.32		
ACT FIRED	3	541.99	.42		

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ACT TOTAL					
ACT FILED					
TOTAL FOR DISTRICT F-1 AT NEW YORK					
	61	11726.94	68.00		
		10650.00	2.24		
	61	22376.94	70.23		
			1.09		
			71.33		
ACT TOTAL					
ACT FILED					
TOTAL FOR DISTRICT F-5 AT PHILADELPHIA					
	92	18030.28	68.00		
	3	643.05	2.24		
	95	18719.33	70.23		
		10650.00	1.09		
	95	29369.33	71.33		
ACT TOTAL					
ACT FILED					
TOTAL FOR THE DIVISION					
	487	104932.15	68.00		
	16	3542.35	2.24		
	503	112516.50	70.23		
		42600.00	1.09		
	503	155116.50	71.33		
F-1 ACD					
	282	25115.52	38.73		
	117	10535.29	16.08		
	399	35650.81	54.81		
		10650.00	.27		
	399	46300.81	55.08		
ACT TOTAL					
ACT FILED					
TOTAL FOR DISTRICT F-2 AT CHICAGO					
	282	25115.52	38.73		
	117	10535.29	16.08		
	399	35650.81	54.81		
		10650.00	.27		
	399	46300.81	55.08		
G-1 NPD					
	71	11726.70	9.85		
	6	982.35	.83		
	77	12709.05	10.68		
		10650.00	.27		
	77	23359.05	10.96		
ACT TOTAL					
ACT FILED					
TOTAL FOR DISTRICT G-2 AT PORTLAND					
	83	19837.00	11.62		
	5	1195.00	.70		
	88	21032.00	12.32		
		10650.00	.27		
	88	31682.00	12.59		
ACT TOTAL					
ACT FILED					
TOTAL FOR DISTRICT G-3 AT SEATTLE					



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DISTRICT G4 AT DALLA WALL				
ACT TOTAL	N	53	7895.67	7.34
ACT FIRED	P	13	2178.10	1.80
TOTAL FOR DISTRICT G4 AT DALLA WALL		66	10073.77	9.14
			10650.00	.27
		66	20723.77	9.61
DISTRICT M1 AT MONTINGTON				
ACT TOTAL	N	207	39459.37	28.81
ACT FIRED	R	24	4355.45	3.33
TOTAL FOR DISTRICT M1 AT MONTINGTON		231	43814.82	32.14
			31950.00	.82
		231	75764.82	32.96
DISTRICT M2 AT LOUISVILLE				
ACT TOTAL	N	70	8435.52	9.64
ACT FIRED	R	4	709.72	.55
TOTAL FOR DISTRICT M2 AT LOUISVILLE		74	9145.24	10.20
			10650.00	.27
		74	20295.24	10.47
DISTRICT M3 AT NASHVILLE				
ACT TOTAL	N	67	3101.31	9.15
ACT FIRED	R	18	152.72	2.44
TOTAL FOR DISTRICT M3 AT NASHVILLE		85	3254.03	11.59
			10650.00	.27
		85	13904.04	11.87
DISTRICT M4 AT PITTSBURGH				
ACT TOTAL	N	74	9708.70	10.21
ACT FIRED	R	34	3118.34	4.57
TOTAL FOR DISTRICT M4 AT PITTSBURGH		108	12827.04	14.88
			10650.00	.27
		108	23559.04	15.15
DISTRICT M5 AT PITTSBURGH				
ACT TOTAL	N	117	17130.48	16.17
ACT FIRED	R	20	1650.86	2.74
TOTAL FOR DISTRICT M5 AT PITTSBURGH		137	18781.34	18.91
			10650.00	.27
		137	29431.34	19.18

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TOTAL FOR THE DIVISION				
ACT TOTAL	328	39958.13	45.18	
ACT FIRED	76	5631.63	18.41	
	406	45589.77	52.58	
	406	47189.77	58.67	
AT CAD				
ACT TOTAL	150	16775.44	28.66	
ACT FIRED	207	24717.59	28.54	
	357	41493.03	49.20	
	357	10650.00	.27	
TOTAL FOR DISTRICT #3 AT JACKSONVILLE				
ACT TOTAL	34	8113.29	6.76	
ACT FIRED	43	10217.00	9.02	
	77	18390.29	18.78	
	77	10650.00	.27	
TOTAL FOR DISTRICT #5 AT MOBILE				
ACT TOTAL	64	15296.00	8.96	
ACT FIRED	9	2151.00	1.26	
	73	17467.00	18.22	
	73	10650.00	.27	
TOTAL FOR DISTRICT #4 AT SAVANNAH				
ACT TOTAL	248	40184.73	34.38	
ACT FIRED	259	37145.59	35.82	
	507	77330.32	70.20	
	507	31950.00	.82	
TOTAL FOR THE DIVISION				
	507	109280.32	71.02	
L: CAD				
ACT TOTAL	112	26713.44	15.68	
ACT FIRED	20	4779.87	2.88	
	132	31493.30	18.44	
	132	10650.00	.27	
TOTAL FOR DISTRICT L1 AT LOS ANGELES				
ACT TOTAL	119	24190.91	16.66	
ACT FIRED	8	1786.95	1.12	
	127	29977.86	17.77	
	127	10650.00	.27	
TOTAL FOR DISTRICT L2 AT SACRAMENTO				
	127	40627.46	18.85	

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-----			
	N		
	R		
ACT TOTAL	231	54904.34	32.34
ACT FIXED	28	6566.82	3.92
	259	61471.16	36.25
		21300.00	.55
TOTAL FOR THE DIVISION	259	82771.16	36.80
-----			
M: SWD			
	N		
	R		
ACT TOTAL	226	43947.13	31.59
ACT FIXED	52	10373.80	7.26
	278	54320.93	38.84
		10650.00	.27
TOTAL FOR DISTRICT M1 AT ALBUQUERQUE	278	64970.93	39.12
-----			
	N		
	R		
ACT TOTAL	62	14685.23	8.68
ACT FIXED	46	10994.00	6.44
	108	25679.22	15.12
		10650.00	.27
TOTAL FOR DISTRICT M2 AT FT. WORTH	108	36329.22	15.39
-----			
	N		
	R		
ACT TOTAL	65	15166.00	9.09
ACT FIXED	14	3158.70	1.96
	79	18324.70	11.05
		10650.00	.27
TOTAL FOR DISTRICT M3 AT GALVESTON	79	28974.70	11.32
-----			
	N		
	R		
ACT TOTAL	25	5343.96	3.50
ACT FIXED	14	3296.30	1.96
	39	8640.26	5.46
		10650.00	.27
TOTAL FOR DISTRICT M4 AT LITTLE ROCK	39	19330.26	5.73
-----			



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	N			
	R			
ACT TOTAL	52	12181.81	7.28	
ACT FIXED	8	1746.62	1.12	
	60	13928.43	8.40	
		10650.00	.27	
TOTAL FOR DISTRICT MS AT TULSA	60	24578.43	8.67	

	N			
	R			
ACT TOTAL	430	91364.12	60.14	
ACT FIXED	134	29569.41	18.73	
	564	120933.54	78.87	
		53250.00	1.37	
TOTAL FOR THE DIVISION	564	174193.54	80.23	

COMPLETE TOTAL THIS ASSIGNMENT	3609	948234.29	509.26	
COMPLETE TOTAL THIS ASSIGNMENT	3609	948234.29	509.26	

Example 2

COMMAND- attach,f,profile,id=puaj

PP CYCLE NO. = 001

COMMAND- begin(ex,f,a=i,t=2,yr=6,nf=inlex,dn=inlexdn)

WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,  
NO. OF TRIP,FIXED COST/OFFICE,FIXED MAN YR/OFFICE, AVG WAGE/DAY?  
IF YES TYPE Y;OTHERWISE TYPE N:

PF CYCLE NO. = 001

PF CYCLE NO. = 002

CM LWA+1 = 21251B, LOADER USED 33300Bn

WANT TO DELETE ANY DISTRICT? TYPE Y OR N:y

PLEASE ENTER THE DIVISION NAME(S) AND DISTRICT NO.(S) WHICH ARE  
TO BE DELETED WITH ONE BLANK IN BETWEEN AND ENTER THEM ALL ;"  
ONE LINE

m3 a2 e4

THANK YOU.

STOP

.140 CP SECONDS EXECUTION TIME

PF CYCLE NO. = 002

PF CYCLE NO. = 002

PF CYCLE NO. = 002

CM LWA+1 = 31571B, LOADER USED 43600B

END IMAP2

26.452 CP SECONDS EXECUTION TIME

THIS IS A TYPE 2 MAP PROGRAM FOR INLEASING ACTIVITY  
THE FOLLOWING VALUES ARE USED IN THE PARAMETERS:

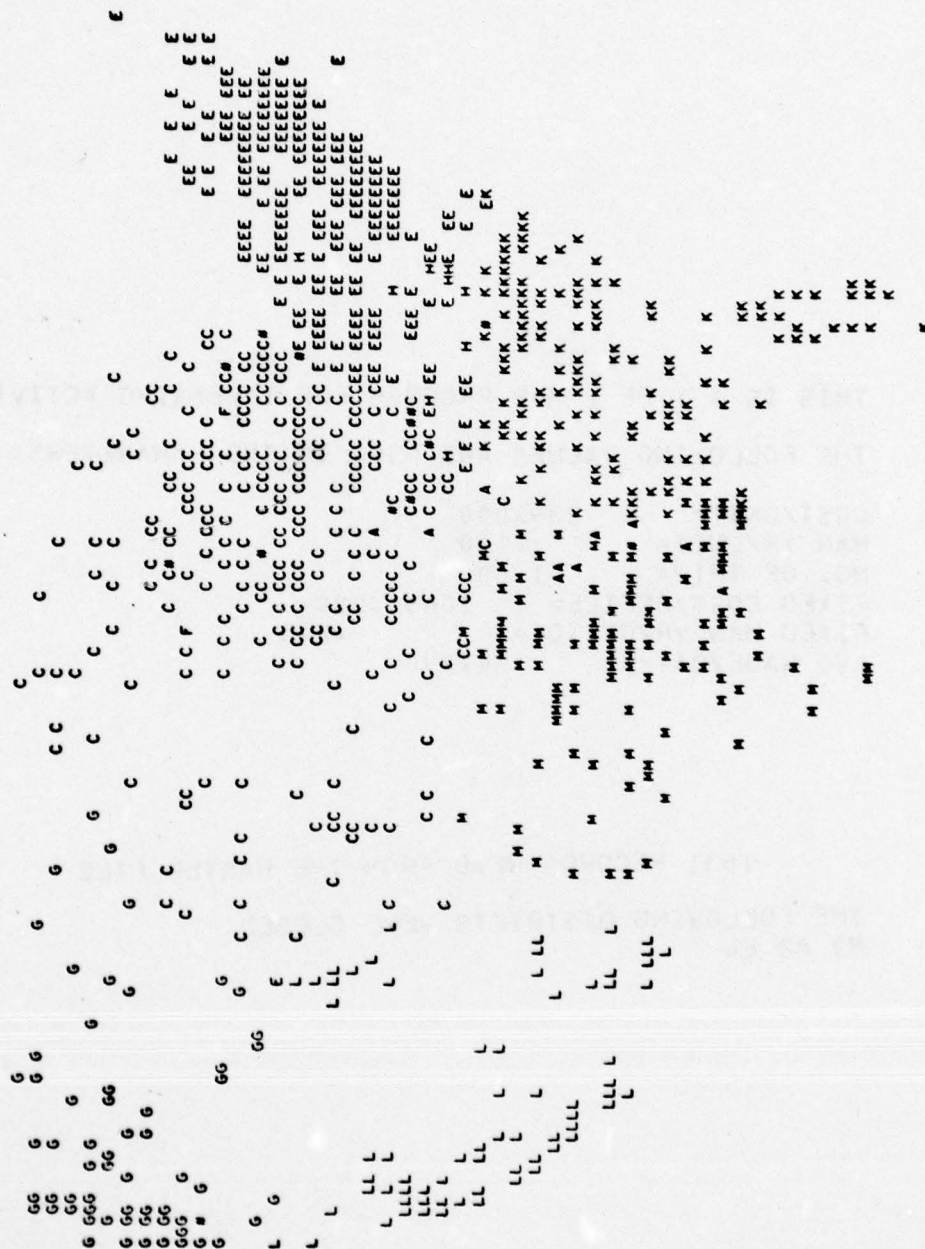
COST/UNIT= 239.000  
MAN YR/UNIT= .140  
NO. OF TRIP= 1.000  
FIXED COST/OFFICE= 10650.000  
FIXED MAN YR/OFFICE= .273  
AVG WAGE/DAY= 64.790

1631 RECORDS READ FROM THE MASTER FILE  
THE FOLLOWING DISTRICTS WERE CLOSED  
M3 A2 E4



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MAP OF DIVISION ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE TO THE CLOSED OFFICE (OTHER REMAIN AS EXISTING)



MAP OF DISTRICT ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE TO THE CLOSED OFFICE (OTHER REMAIN AS EXISTING)

93

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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT TO THE CLOSEST DISTRICT OFFICE OF THE CLOSED OFFICE (OTHER REMAIN AS EXISTING)

DIVISION	INLEASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A: LMVD				
	R	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A1 AT MEMPHIS		1	10889.00	.41
	N	4	956.00	.56
	R	1	239.00	.14
ACT TOTAL		5	1195.00	.70
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A3 AT ST. LOUIS		5	11845.00	.97
	N	17	4219.05	2.38
	R	2	478.00	.28
ACT TOTAL		19	4697.05	2.66
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A4 AT VICKSBURG		19	15347.05	2.93
	N	21	5175.05	2.94
	R	4	956.00	.56
ACT TOTAL		25	6131.05	3.50
ACT FIXED			31950.00	.82
TOTAL FOR THE DIVISION		25	38081.05	4.32
C: MRO				
	N	85	20315.00	11.90
	R	35	8365.00	4.90
ACT TOTAL		120	28680.00	16.80
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT C1 AT KANSAS CITY		120	39330.00	17.07
	N	564	134796.00	78.96
	R	271	64769.00	37.94
ACT TOTAL		835	199565.00	116.90
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT C2 AT OMAHA		835	210215.00	117.17



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OI MED					
ACT TOTAL	649	155111.00	90.86		
ACT FIXED	306	23136.00	42.84		
TOTAL FOR THE DIVISION	955	228245.00	133.70		
	955	21300.00	.55		
		249565.00	134.25		
-----					
OI MED					
ACT TOTAL	0	0.00	0.00		
ACT FIXED	0	10650.00	.27		
TOTAL FOR DISTRICT OI AT BOSTON	0	10650.00	.27		
-----					
EI MAD					
ACT TOTAL	387	93025.17	54.19		
ACT FIXED	17	4063.00	2.38		
TOTAL FOR DISTRICT EI AT BALTIMORE	404	97088.17	56.57		
	404	10650.00	.27		
		107738.17	56.84		
-----					
EI MAD					
ACT TOTAL	449	107311.00	62.86		
ACT FIXED	20	4760.00	2.80		
TOTAL FOR DISTRICT EI AT NEW YORK	469	112071.00	65.66		
	469	10650.00	.27		
		122721.00	65.93		
-----					
EI MAD					
ACT TOTAL	1	239.00	.14		
ACT FIXED	1	239.00	.14		
TOTAL FOR DISTRICT EI AT PHILADELPHIA	1	10650.00	.27		
	1	10689.00	.41		
-----					
EI MAD					
ACT TOTAL	837	200575.17	117.19		
ACT FIXED	37	8643.00	5.18		
TOTAL FOR THE DIVISION	874	209418.17	122.37		
	874	31950.00	.82		
		241368.17	123.19		

AD-A057 146

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAI--ETC F/G 5/1  
REAL ESTATE MODEL OF ACTIVITY PERFORMANCE (REMAP) USER'S MANUAL--ETC(U)  
JUL 78 C P ALTHEIDE

UNCLASSIFIED

CERL-TR-P-89

NL

2 of 3

AD  
A057 146



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F: MCD				
	N	R		
ACT TOTAL	5		1195.00	.76
ACT FINE	8		1912.00	1.12
TOTAL FOR DISTRICT F2 AT CHICAGO	13		3107.00	1.82
			10650.00	.27
	13		13757.00	2.09
-----				
ACT TOTAL	5		1195.00	.76
ACT FINE	8		1912.00	1.12
TOTAL FOR THE DIVISION	13		3107.00	1.82
			10650.00	.27
	13		13757.00	2.09
-----				
G: MPD				
	N	R		
ACT TOTAL	2		478.00	.28
ACT FINE	2		478.00	.28
TOTAL FOR DISTRICT G2 AT PORTLAND	2		10650.00	.27
			11128.00	.55
ACT TOTAL	191		45649.00	26.74
ACT FINE	19		4541.00	2.06
TOTAL FOR DISTRICT G3 AT SEATTLE	210		50190.00	29.40
			10650.00	.27
	210		60840.00	29.67
-----				
ACT TOTAL	1		239.00	.14
ACT FINE	1		239.00	.14
TOTAL FOR DISTRICT G4 AT WALLA WALL	1		10650.00	.27
			10069.00	.61
-----				
ACT TOTAL	196		46364.00	27.16
ACT FINE	19		4541.00	2.06
TOTAL FOR THE DIVISION	213		50907.00	29.82
			31950.00	.82
	213		82857.00	30.64
-----				
H: ORD				
	N	R		
	9		1696.14	1.25



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ACT TOTAL	9	1000.10	1.25
ACT FILED		1000.00	.27
TOTAL FOR DISTRICT #1 AT MARTINSDEN	9	1200.10	1.53
ACT TOTAL	6	956.00	.56
ACT FILED	6	956.00	.56
TOTAL FOR DISTRICT #2 AT LOUISVILLE	6	1000.00	.27
ACT TOTAL	6	1100.00	.83
ACT FILED	6	1100.00	.83
TOTAL FOR DISTRICT #3 AT NASHVILLE	1	239.00	.16
ACT TOTAL	1	239.00	.16
ACT FILED	1	1000.00	.27
TOTAL FOR DISTRICT #4 AT PITTSBURGH	1	1000.00	.41
ACT TOTAL	2	478.00	.28
ACT FILED	2	478.00	.28
TOTAL FOR DISTRICT #5 AT MOBILE	2	11128.00	.55
ACT TOTAL	16	3365.14	2.23
ACT FILED	16	3365.14	2.23
TOTAL FOR THE DIVISION	16	42000.00	1.89
ACT TOTAL	6	1034.00	.84
ACT FILED	6	1034.00	.84
TOTAL FOR DISTRICT #3 AT JACKSONVILLE	6	12000.00	1.11
ACT TOTAL	276	44854.36	20.54
ACT FILED	291	44854.00	41.74
TOTAL FOR DISTRICT #5 AT MOBILE	567	135405.36	79.38
ACT TOTAL	567	144295.36	79.65
ACT FILED	139	33221.00	19.40
TOTAL FOR DISTRICT #9 AT SAVANNAH	17	4003.00	2.30
ACT TOTAL	154	37296.00	21.84
ACT FILED	154	10050.00	.27
TOTAL FOR DISTRICT #9 AT SAVANNAH	154	47936.00	22.11

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		N				
ACT TOTAL		415	99277.36		58.10	
ACT FIRED		314	75046.00		43.96	
TOTAL FOR THE DIVISION		729	174323.36		102.06	
			31950.00		.82	
		729	206273.36		102.88	
-----						
L1 SPO						
		N				
ACT TOTAL		271	44769.00		37.94	
ACT FIRED		26	6214.00		3.64	
TOTAL FOR DISTRICT L1 AT LOS ANGELES		297	70983.00		41.58	
			10650.00		.27	
		297	81633.00		41.85	
-----						
		N				
ACT TOTAL		135	32265.00		18.90	
ACT FIRED		10	2390.00		1.40	
TOTAL FOR DISTRICT L2 AT SACRAMENTO		145	34655.00		20.30	
			10650.00		.27	
		145	45305.00		20.57	
-----						
M1 SPO						
		N				
ACT TOTAL		406	97034.00		56.84	
ACT FIRED		36	8604.00		5.04	
TOTAL FOR THE DIVISION		442	105638.00		61.88	
			21300.00		.55	
		442	126938.00		62.43	
-----						
M2 SPO						
		N				
ACT TOTAL		18	4382.00		2.52	
ACT FIRED		12	2888.00		1.88	
TOTAL FOR DISTRICT M1 AT ALBUQUERQUE		30	7170.00		4.40	
			10450.00		.27	
		30	17620.00		4.67	
-----						
		N				
ACT TOTAL		167	43749.60		23.43	
ACT FIRED		73	17447.00		10.22	
TOTAL FOR DISTRICT M2 AT FT. WORTH		240	61196.60		33.65	
			10650.00		.27	
		240	71846.60		33.92	
-----						
		N				
ACT TOTAL		17	3952.80		2.30	
ACT FIRED		13	3107.00		1.82	

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ACT TOTAL	30	7059.80	4.20
ACT FIXED		10650.00	.27
TOTAL FOR DISTRICT M4 AT LITTLE ROCK	30	17709.81	4.47
	40	9560.00	5.60
	2	478.00	.28
ACT TOTAL			
ACT FIXED	42	10038.00	5.88
		10650.00	.27
TOTAL FOR DISTRICT M5 AT TULSA	42	20688.00	6.15
	242	61564.40	33.93
	100	23900.00	14.00
ACT TOTAL			
ACT FIXED	342	85464.40	47.93
		42600.00	1.09
TOTAL FOR THE DIVISION	342	128064.40	49.02
COMPLETE TOTAL THIS ASSIGNMENT	3609	1143503.12	512.41
COMPLETE TOTAL THIS ASSIGNMENT	3609	1143503.12	512.41



Example 3a

COMMAND- begin(ex,f,a=i,t=1,yr=6,l=c,nc=div12,r=y,nf=in112,dn=in112dn)  
DO YOU WANT TO CREATE THE OFFICE DIST OR JUST ADD SOME TO THE OLD ONE?  
TYPE C FOR CREATE;TYPE A FOR ADD:

PF CYCLE NO. = 001

PF CYCLE NO. = 002

CM LWA+1 = 20003B, LOADER USED 32000Bc

PLEASE ENTER EACH SET OF INFORMATION IN ONE LINE IN THE FOLLOWING FORMAT

XY ADAMLUDLM LOCATION

START FROM 1ST COLUMN,TYPE

X:DIV SYMBOL;USE ANY ALPHABETIC CHARACTER FROM A TO N EXCEPT I OR J;

Y: DISTRICT NO.;ANY NUMBER FROM 0-9, 0 MUST BE USED FOR DIVISION OFFICE;

...DO NOT CREATE A DISTRICT CODE UNLESS A DIVISION CODE IS ALSO

CREATED OR ALREADY EXISTS...

THEN 4 BLANKS,AND

AD: 2 DIGITS FOR DEGREE OR LATITUDE;

MD: 2 DIGITS FOR MINUTE OF LATITUDE;

LDD: 3 DIGITS FOR DEGREE OF LONGITUDE;

DM: 2 DIGITS FOR MINUTE OF LONGITUDE;

TYPE 1 BLANK,AND THEN

LOCATION:10 CHARACTERS FOR BRIEF NAME OF LOCATION

FOR EXAMPLE:

A0 123456789 CERL  
A1 123456789 CHAMPAIGN  
B0 3790 7700 OCE  
B  
B1 3790 7700 WASH D.C.

...FOR ANY DUPLICATE XY IN THE LIST, ONLY THE FIRST OCCURRENCE  
WILL BE RECOGNIZED, OTHER(S) WILL BE IGNORED. AFTER ENTERING  
ALL DATA, PLEASE TYPE ++ IN THE FIRST TWO COLUMNS ON THE NEXT LINE...

a0 3221 9053 lmv  
a1 3221 9053 vicksburg  
c0 4117 9601 mrd  
c2 4117 9601 omaha  
b0 3837 9012 st. louis  
b3 3837 9012 st. louis  
e0 4043 7400 nad  
e4 4043 7400 new york  
f0 4153 8738 ned  
f5 4153 8738 chicago  
g0 453212237 npd  
q1 453212237 portland  
h6 3906 8431 cincinnati  
d0 4223 7114 ned

d6 4223 7114 boston  
k0 3345 8423 sad  
control y  
k7 3345 8423 atlanta  
l0 374712225 spd  
l8 374712225 san franci  
m0 3247 9649 swd  
m9 3247 9649 dallas  
n0 394410459 denver  
n7 394410459 denver  
++

THANK YOU

WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,  
NO. OF TRIP, FIXED COST/OFFICE, FIXED MAN YR/OFFICE, AVG WAGE/DAY?  
IF YES TYPE Y; OTHERWISE TYPE N:

STOP

.348 CP SECONDS EXECUTION TIME

INITIAL CATALOG

RP = 030 DAYS

CT ID= PUAJ PFN=DIV12

CT CY= 001 00000003 PRUS \$0000.01 /DAY

PF CYCLE NO. = 002

PF CYCLE NO. = 003

PF CYCLE NO. = 004

PF CYCLE NO. = 001

PF CYCLE NO. = 002

CM LWA+1 = 212510, LOADER USED 33300Bn

WANT TO DELETE ANY DISTRICT? TYPE Y OR N:n

THANK YOU.

STOP

.082 CP SECONDS EXECUTION TIME

CM LWA+1 = 30207B, LOADER USED 42200B

STOP

104.341 CP SECONDS EXECUTION TIME

INITIAL CATALOG

RP = 030 DAYS

CT ID= PUAJ PFN-INL12

CT CY= 001 000000281 PRUS \$0000.70 /DAY

INITIAL CATALOG

RP = 030 DAYS

CT ID= PUAJ PFN=INL12DN

CT CY= 001 00000004 PRUS \$0000.01 /DAY

PF CYCLE NO. = 002

CM LWA+1 = 37151B, LOADER USED 51200B

END IMAP1

32.616 CP SECONDS EXECUTION TIME

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THIS IS A TYPE 2 MAPDATA PROGRAM FOR INLEASING ACTIVITY

THE FOLLOWING OFFICES ARE USED FOR THE EXISTING ASSIGNMENT:

A0 LMVD  
A1 MEMPHIS  
A2 NEW ORLEAN  
A3 ST. LOUIS  
A4 VICKSBURG  
C0 MRD  
C1 KANSAS CIT  
C2 OMAHA  
D0 NED  
D1 BOSTON  
E0 NAD  
E1 BALTIMORE  
E3 NEW YORK  
E4 NORFOLK  
E5 PHILADELPH  
F0 NCD  
F2 CHICAGO  
G0 NPD  
G2 PORTLAND  
G3 SEATTLE  
G4 WALLA WALL  
H0 ORD  
H1 HUNTINGTON  
H2 LOUISVILLE  
H3 NASHVILLE  
H4 PITTSBURGH  
K0 SAD  
K3 JACKSONVIL  
K5 MOBILE  
K6 SAVANNAH  
L0 SPD  
L1 LOS ANGELE  
L2 SACRAMENTO  
M0 SWD  
M1 ALBUQUERQU  
M2 FT. WORTH  
M3 GALVESTON  
M4 LITTLE ROC  
M5 TULSA



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THE FOLLOWING OFFICES ARE USED FOR NEW ASSIGNMENT:

A0 LMVD  
A1 VICKSBURG  
C0 MRD  
C2 OMAHA  
R0 ST. LOUIS  
R3 ST. LOUIS  
E0 NAD  
E4 NEW YORK  
F0 NCD  
F5 CHICAGO  
G0 NPD  
G1 PORTLAND  
H0 ORD  
H6 CINCINNATI  
D0 NED  
D6 BOSTON  
K0 SAD  
K7 ATLANTA  
L0 SPD  
LA SAN FRANCISCO  
M0 SWD  
M9 DALLAS  
N0 DENVER  
N7 DENVER

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THE FOLLOWING MASTER FILE RECORDS HAVE NOT BEEN ASSIGNED DUE TO ONE OF THE FOLLOWING REASONS  
1. NO WATCH WAS FOUND FOR THIS RECORD IN THE LAT/LONG FILE  
2. THE DIV/DIST CODE FOR THIS RECORD WAS NOT FOUND IN THE DIVDISTOFFICE DATA FILE

AGANA GUAM	00	22 R
ALAMOGORDO	49	M1 N
ALDENVILLE	42	E1 N
ALEXANDRIA	48	M2 N
ANGLETON TX	48	M3 N
ANNE ARUNDEL	24	E1 N
ANSAS CITY	20	C1 N
ARNOLD	29	C1 N
ASHFORD	00	E3 N
ATCHISON	29	C1 N
BALBOA	00	22 R
BARRINGTON	31	E3 N
BEPLIN	50	E3 N
BOLIVAR	54	E1 N
BRANDON	47	K5 N
CANFIELD	30	E1 N
CANDAGE PARK	04	L1 N
CARLE PLACE	34	E3 N
CHAPLIN	09	E3 N
CHAS HEIGHTS	45	K6 N
CLARKSVILLE	18	C2 N
CODY	21	M2 N
COLCHESTER	50	E3 N
COLONIE	34	E3 N
CORINTHA CORN	28	M3 R
DODGE CITY	29	C1 N
DORCHESTER	25	E3 N
DOUGLASSVILLE	42	E1 N
EAGAN	27	C2 N

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EAGAN	27	C2 R
EASTHAM	25	E3 N
EDWARDSVILLE	42	E1 N
EGAN	27	C2 N
ENON	39	E1 N
ETROIT	26	C2 N
FAIRHANKS ALS	02	G1 N
FALLINGWATERS	54	E1 N
FALLON	06	L2 N
FORESTPORT	36	E3 N
FT LAUDERHILL	12	K5 N
GAMROA	PQ	K5 R
GLENDALE	54	E1 N
GRAND MANAMA ISHF		K3 R
GR COVE SPRINGS 12		K5 N
HARWOOD MINES	42	E1 N
HEMPLE	29	C1 N
HONOLULU/HAW	15	Z2 R
HONOLULU	15	Z2 N
HONOLULU	15	Z2 R
HOPKINSVILLE	42	E1 N
ILADELPHIA PENN42		E5 N
JACK	01	K5 R
JAMATCA	36	E3 N
JONES SHORE	47	K5 N
JUNEAU ALS	02	G1 N
KAWAII OA/HONO	15	Z2 N
KFARSARGE	26	C2 N
KNOXVILLE	27	K5 R
KODIAK ALS	02	G1 N
LAGRANDE	13	K6 R
LAKEHEAD	06	L2 N
LAKE HATRINE	36	E3 N



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LA VISTA	31	C2 N
LEMONT FURNACE	42	E1 N
LOUISVILLE	47	K5 R
LOWELL	37	K6 N
MARSCOTT	54	E1 N
MADISON TOWNSHIP	34	E3 N
MAPLETON	38	C2 N
MARSHFIELD	25	E3 N
MARYVILLE	37	K5 R
MASON CITY	18	C2 N
MECHANICAL	36	E3 N
MESTAD	12	K5 R
MIRAFESTE	06	L1 N
MOLINE ACRES	29	C1 N
MONROE	42	E1 N
NASHVILLE	12	K5 R
NASHVILLE	48	K5 N
NEW HOPE	51	E1 N
N CAR	37	K6 N
OFALLON	29	C1 N
OKLAHOMA CITY	32	M1 R
ONESHORO	05	M4 N
ON	01	K5 R
PANAMA CITY	PN	Z7 N
PARLIN	34	E3 N
PENACOOK	33	E3 N
PISCATAWAY	34	E3 N
PLAINVILLE	09	E3 N
PORT RICHEY	12	K5 N
POWELL	47	K5 R
REISTERSTOWN	24	E1 N
RIDGEWAY	42	E1 N
RODMAN	PO	Z7 N

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HOWLAND HEIGHTS 06	L1 N
SALT LAKE CITY 49	L2 N
SANDY 49	L2 N
SARGENT BLUFF 19	C2 R
SCOTLAND 09	E3 N
SCOTTSVILLE 36	E3 N
SEWARD ALASKA 02	G1 N
SEWARD AL S 02	G1 N
SHARRONA 17	C2 N
SHORT CREEK 39	E1 R
SIERRA 32	M1 R
SOMERS POINT 34	E3 N
SOMERS PT 34	E3 N
SPATISH FORK 49	L2 N
STAFFORD 36	E3 N
STOW 39	E1 N
SWOYERSVILLE 42	E1 N
TARZANA 06	L1 N
TEMPLE TERRACE 12	K5 N
TIERRA DEL MAR 41	G3 N
TIGRETT 47	K5 N
TOPEKA 29	C1 N
TRAVERSE 26	C2 N
TUJUNGA 06	L1 N
ULSA OKLA 40	M5 N
WAHIAWA/HONO 15	Z2 N
WAHIAWA/HONO 15	Z2 R
WALWORTH 36	E3 R
WATERFORD 09	E3 N
WATSON 26	C2 R
WESLACO TX 48	M3 N
WESTHURTN BFACH36	E3 N
WESTPORT 25	E3 N

WEST GORHAM	23	E3 N
WEST WILLINGTON	09	E3 N
NDE	04	L1 N
SAN JOSE	06	L2 N

END OF LAT/LONG FILE  
 RECORDS READ 3607  
 RECORDS WITH LAT/LONG OUT OF RANGE 382  
 RECORDS WHICH WERE NOT MATCHED 1788

END OF MASTER FILE ENCOUNTERED  
 MASTER FILE RECORDS READ, 1763  
 MASTER FILE RECORDS WHICH WERE NOT MATCHED 132

NUMBER OF RECORDS WRITTEN IS 1631

THIS IS A TYPE 1 MAP PROGRAM FOR INLEASING ACTIVITY

THE FOLLOWING VALUES ARE USED IN THE PARAMETERS:

COST/UNIT=	239.000
MAN YR/UNIT=	.140
NO. OF TRIP=	1.000
FIXED COST/OFFICE=	10650.000
FIXED MAN YR/OFFICE=	.273
AVG WAGE/DAY=	64.790

3262 RECORDS READ FROM THE MASTER FILE

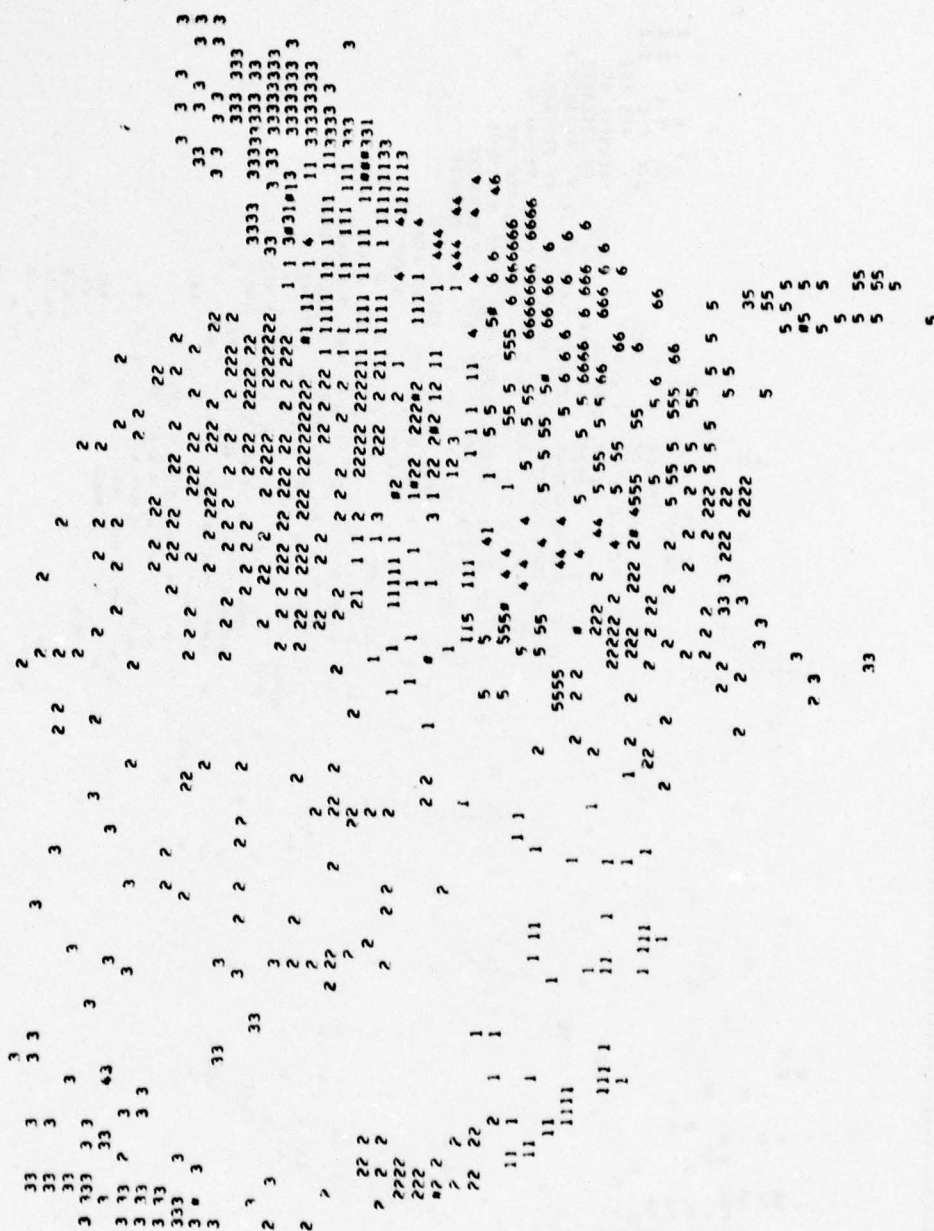


MAP OF EXISTING DIVISION ASSIGNMENTS

109

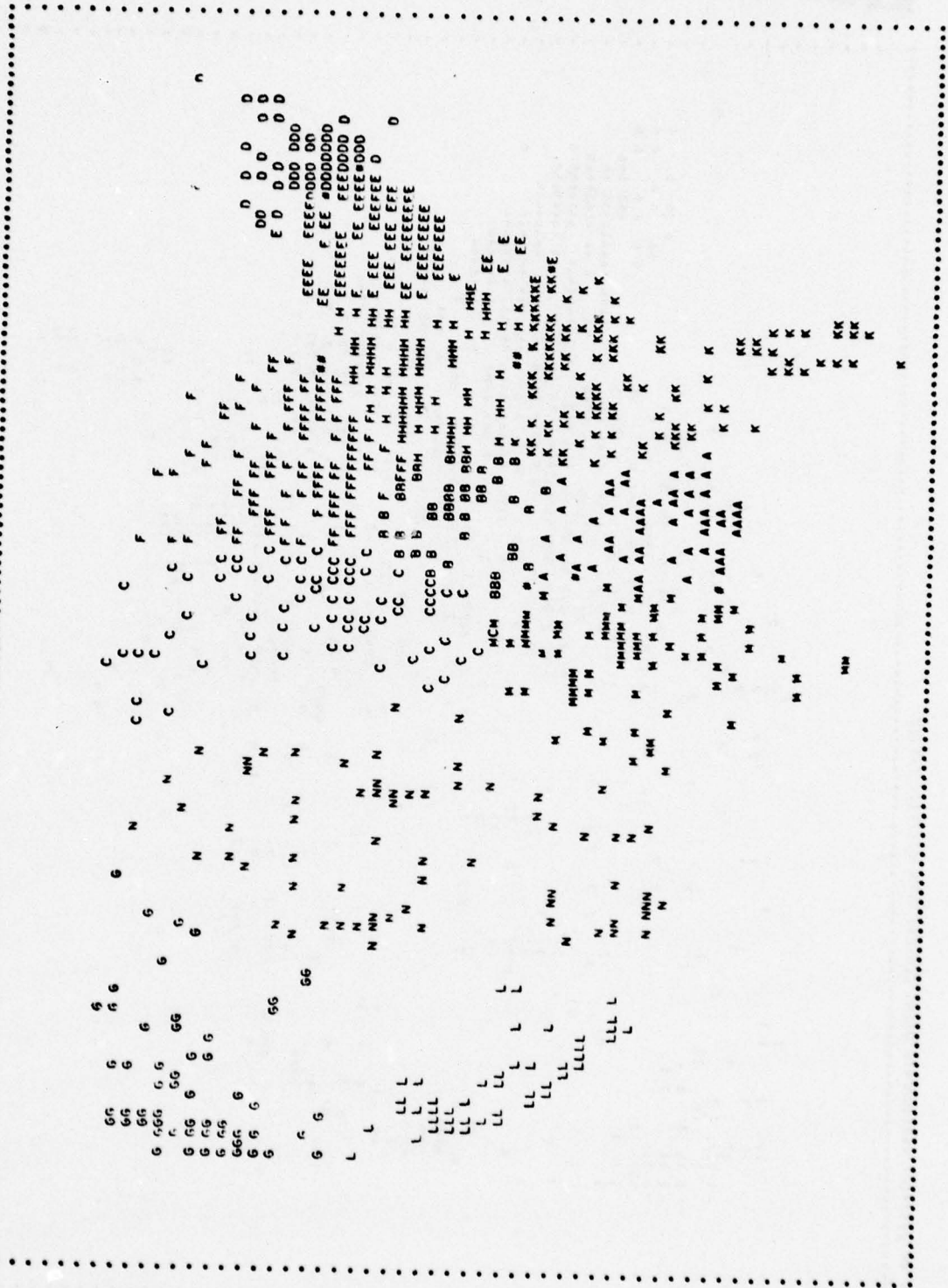
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MAP OF EXISTING DISTRICT ASSIGNMENTS



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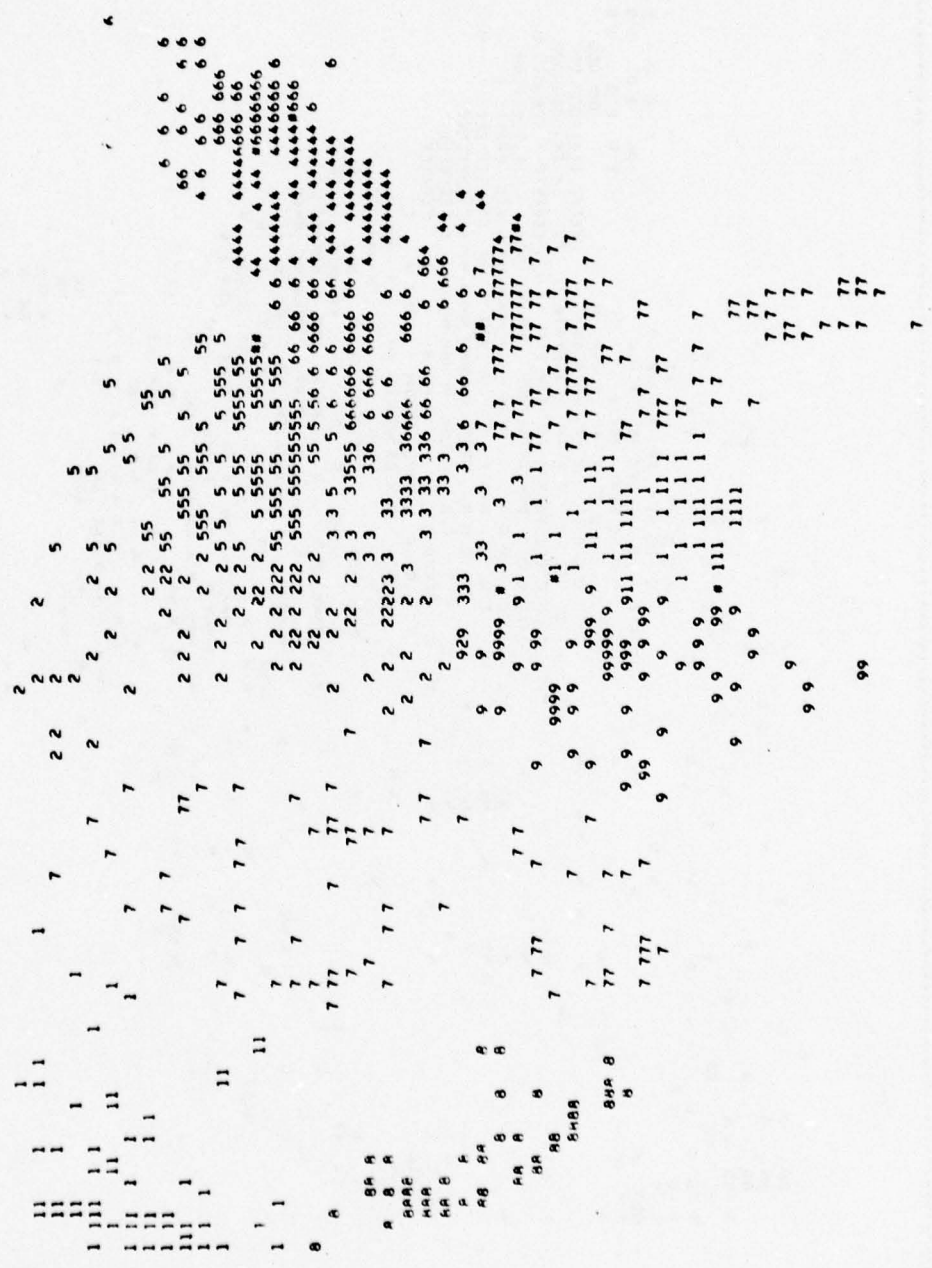
MAP OF DIVISION ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE





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MAP OF DISTRICT ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE



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THE FOLLOWING DISTRICT EMPLOYEES WERE CALCULATED USING  
ASSIGNMENT OF THE EXISTING DISTRICT OFFICE

DIVISION	INFLATING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A2 LMD	P	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIRED		1	10650.00	.27
TOTAL FOR DISTRICT A1 AT MEMPHIS		1	10889.00	.41
ACT TOTAL	N	4	956.00	.56
ACT FIRED		4	956.00	.56
TOTAL FOR DISTRICT A2 AT NEW ORLEANS		4	10650.00	.27
		4	11606.00	.83
ACT TOTAL	N	4	956.00	.56
ACT FIRED	R	1	239.00	.14
TOTAL FOR DISTRICT A3 AT ST. LOUIS		5	1195.00	.70
		5	10650.00	.27
		5	11045.00	.97
ACT TOTAL	N	13	3107.00	1.82
ACT FIRED	P	2	478.00	.28
TOTAL FOR DISTRICT A4 AT VICKSBURG		15	3585.00	2.10
		15	10650.00	.27
		15	14235.00	2.37
ACT TOTAL	N	21	5619.00	2.94
ACT FIRED	R	4	956.00	.56
TOTAL FOR THE DIVISION		25	5975.00	3.50
		25	42600.00	1.89
		25	48575.00	4.39
CT LMD	N	85	20315.00	11.90
ACT TOTAL	R	35	8345.00	4.90
ACT FIRED		120	28680.00	16.80
TOTAL FOR DISTRICT C1 AT KANSAS CITY		120	10650.00	.27
		120	39330.00	17.07

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ACT TOTAL	544	134794.00	78.96
ACT FIRED	271	66769.00	37.96
	035	199555.00	116.90
		1659.00	.27
TOTAL FOR DISTRICT CP AT OKAMA	035	210215.00	117.17

	N		
	449	155111.00	90.04
	304	73136.00	42.04
ACT TOTAL			
ACT FIRED	955	228265.00	133.78
		21360.00	55
TOTAL FOR THE DIVISION	955	249565.00	134.25

D: NEW			
ACT TOTAL	0	0.00	
ACT FINE		10650.00	.27
TOTAL FOR DISTRICT D1 AT NEWTON	0	10650.00	.27

ACT TOTAL	0	0.00
ACT FIXED		.27
TOTAL FOR THE DIVISION	0	0.27

F:	NAD	M	
		N	
ACT TOTAL		351	83889.00
ACT FIRED		17	4663.00
			2.38
		368	87952.00
			18658.00
			.77
TOTAL FOR DISTRICT E1 AT BALTIMORE		368	98602.00
			51.79

N	449	107311.00	62.46
R	28	6786.00	2.80
NET TOTAL		112097.00	65.26
NET FTEEN		10656.00	.27
TOTAL FOR DISTRICT E3 AT NEW YORK		122753.00	65.93

ACT TOTAL	45	10755.00	6.30
ACT FINE	45	10755.00	6.30
		10650.00	.27
TOTAL FOR DISTRICT 24 AT WARDEN	45	21605.00	6.57



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ACT TOTAL	1	239.00	.16
ACT FIRE	1	239.00	.16
TOTAL FOR DISTRICT F5 AT PHILADELPH	1	10009.00	.61
ACT TOTAL	846	282194.00	114.44
ACT FIRE	37	8443.00	5.18
TOTAL FOR THE DIVISION	883	211037.00	123.62
		42808.00	1.99
	883	253837.00	124.71
F: WFO	5	1195.00	.78
	8	1912.00	1.12
ACT TOTAL	13	3107.00	1.82
ACT FIRE		10658.00	.27
TOTAL FOR DISTRICT F2 AT CHICAGO	13	13757.00	2.09
	5	1195.00	.78
	8	1912.00	1.12
ACT TOTAL	13	3107.00	1.82
ACT FIRE		10658.00	.27
TOTAL FOR THE DIVISION	13	13757.00	2.09
G: WFO	2	678.00	.28
	2	678.00	.28
ACT TOTAL	2	10658.00	.27
ACT FIRE		11129.00	.55
TOTAL FOR DISTRICT G2 AT PORTLAND	2	11129.00	.55
	191	45649.00	26.74
	10	4561.00	2.66
ACT TOTAL	210	50199.00	29.40
ACT FIRE		10658.00	.27
TOTAL FOR DISTRICT G3 AT SEATTLE	210	60857.00	29.67
	1	239.00	.16
ACT TOTAL	1	239.00	.16
ACT FIRE		10658.00	.27
TOTAL FOR DISTRICT G4 AT WALLA WALL	1	10009.00	.61

	N			
ACT TOTAL	194	46366.00	27.16	
ACT FIRED	10	6541.00	7.66	
TOTAL FOR THE DIVISION	213	59907.00	29.82	
		31956.00	.82	
	213	82957.00	30.64	
M: OMO				
ACT TOTAL	0	0.00	0.00	
ACT FIRED		18650.00	.27	
TOTAL FOR DISTRICT #1 AT HUNTINGTON	0	18650.00	.27	
N	4	956.00	.56	
ACT TOTAL				
ACT FIRED	4	956.00	.56	
TOTAL FOR DISTRICT #2 AT LOUISVILLE	4	10658.00	.27	
		11000.00	.03	
N	1	239.00	.14	
ACT TOTAL				
ACT FIRED	1	239.00	.14	
TOTAL FOR DISTRICT #3 AT NASHVILLE	1	10649.00	.27	
		10009.00	.41	
N	2	478.00	.28	
ACT TOTAL				
ACT FIRED	2	478.00	.28	
TOTAL FOR DISTRICT #4 AT PITTSBURGH	2	10649.00	.27	
		11120.00	.55	
N	7	1673.00	.98	
ACT TOTAL				
ACT FIRED	7	1673.00	.98	
TOTAL FOR THE DIVISION	7	67006.00	1.00	
		64273.00	2.07	
F: SGP				
ACT TOTAL	6	1636.00	.84	
ACT FIRED	6	1636.00	.84	
TOTAL FOR DISTRICT #5 AT JACKSONVILLE	6	10650.00	.27	
		12000.00	1.11	

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N	274	65486.00	34.36
N	291	69440.00	68.76
ACT TOTAL			
ACT FIRED	565	135035.00	79.10
		10050.00	.27
TOTAL FOR DISTRICT #4 AT MOBILE	565	145085.00	79.37
N	134	33221.00	19.46
N	17	4863.00	2.38
ACT TOTAL			
ACT FIRED	156	37286.00	21.84
		10650.00	.27
TOTAL FOR DISTRICT #4 AT SAVANNAH	156	47936.00	22.11

N	413	90707.00	57.82
N	314	75046.00	61.96
ACT TOTAL			
ACT FIRED	727	173753.00	101.78
		31950.00	.82
TOTAL FOR THE DIVISION	727	205703.00	102.60

L: SPD			
N	271	64769.00	37.94
N	26	6214.00	3.64
ACT TOTAL			
ACT FIRED	297	70983.00	61.50
		10650.00	.27
TOTAL FOR DISTRICT L1 AT LOS ANGELES	297	81633.00	61.75
N	135	32265.00	18.90
N	10	2308.00	1.40
ACT TOTAL			
ACT FIRED	145	34655.00	20.30
		10650.00	.27
TOTAL FOR DISTRICT L2 AT SACRAMENTO	145	45305.00	20.57

N	406	97034.00	56.84
N	36	8664.00	5.04
ACT TOTAL			
ACT FIRED	442	105038.00	61.88
		21308.00	.95
TOTAL FOR THE DIVISION	442	126346.00	62.83





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THE FOLLOWING DISTRICT UNLOADS WERE CALCULATED USING  
ASSIGNMENT TO THE CLOSEST DISTRICT OFFICE

DIVISION	IMLESSING TYPE	UNLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A: LMD				
	N	122	24611.58	16.99
	P	53	12438.09	7.41
ACT TOTAL				
ACT FIRED		175	37049.67	24.40
			10650.00	.27
TOTAL FOR DISTRICT A1 AT VICKSBURG		175	47699.67	24.67

	N	122	24611.58	16.99
	P	53	12438.09	7.41
ACT TOTAL				
ACT FIRED		175	37049.67	24.40
			10650.00	.27
TOTAL FOR THE DIVISION		175	47699.67	24.67

DIVISION	IMLESSING TYPE	UNLOAD (UNITS)	COST (\$)	EFF. MAN/YR
B: ST. LOUIS				
	N	74	11192.41	10.24
	P	37	5372.45	5.12
ACT TOTAL				
ACT FIRED		111	16564.86	15.36
			10650.00	.27
TOTAL FOR DISTRICT B3 AT ST. LOUIS		111	27214.86	15.63

	N	74	11192.41	10.24
	P	37	5372.45	5.12
ACT TOTAL				
ACT FIRED		111	16564.86	15.36
			10650.00	.27
TOTAL FOR THE DIVISION		111	27214.86	15.63

DIVISION	IMLESSING TYPE	UNLOAD (UNITS)	COST (\$)	EFF. MAN/YR
C: MDD				
	N	225	56940.48	31.57
	P	99	25393.43	13.96
ACT TOTAL				
ACT FIRED		324	82341.92	45.44
			10650.00	.27
TOTAL FOR DISTRICT C2 AT OMAHA		324	92991.92	45.73

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D: MCO					
ACT TOTAL	225	54949.48	31.57		
ACT FIRED	99	29393.43	13.98		
TOTAL FOR THE DIVISION	324	84342.91	45.55		
	324	92991.92	45.73		
D: MCO					
ACT TOTAL	209	36722.68	29.02		
ACT FIRED	14	2591.79	1.95		
TOTAL FOR DISTRICT DA AT BOSTON	223	39314.46	30.96		
	223	45964.46	31.23		
E: MCO					
ACT TOTAL	209	36722.68	29.02		
ACT FIRED	14	2591.79	1.95		
TOTAL FOR THE DIVISION	223	39314.46	30.96		
	223	45964.46	31.23		
E: MCO					
ACT TOTAL	488	131945.37	69.61		
ACT FIRED	17	4507.93	2.39		
TOTAL FOR DISTRICT EA AT NEW YORK	505	136453.30	71.00		
	505	147103.30	71.27		
F: MCO					
ACT TOTAL	488	131945.37	69.61		
ACT FIRED	17	4507.93	2.39		
TOTAL FOR THE DIVISION	505	136453.30	71.00		
	505	147103.30	71.27		
F: MCO					
ACT TOTAL	281	24647.74	38.68		
ACT FIRED	116	10300.90	16.21		
TOTAL FOR DISTRICT FS AT CHICAGO	399	34948.65	54.82		
	399	45998.65	55.89		



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G: MPD			
ACT TOTAL	201	20447.74	30.40
ACT FIRED	114	10300.00	14.21
TOTAL FOR THE DIVISION	399	34940.45	54.82
	399	10650.00	.27
	399	45590.65	55.89
G: MPD			
ACT TOTAL	201	40630.76	28.18
ACT FIRED	19	4540.85	2.66
TOTAL FOR DISTRICT G1 AT PORTLAND	220	53171.61	30.84
	220	10650.00	.27
	220	63821.61	31.11
H: OPO			
ACT TOTAL	201	40630.76	28.18
ACT FIRED	19	4540.85	2.66
TOTAL FOR THE DIVISION	220	53171.61	30.84
	220	10650.00	.27
	220	63821.61	31.11
H: OPO			
ACT TOTAL	194	25314.30	27.95
ACT FIRED	31	1613.41	4.23
TOTAL FOR DISTRICT H4 AT CINCINNATI	227	26927.70	31.28
	227	10650.00	.27
	227	37577.70	31.55
H: SAO			
ACT TOTAL	194	25314.30	27.95
ACT FIRED	31	1613.41	4.23
TOTAL FOR THE DIVISION	227	26927.70	31.28
	227	10650.00	.27
	227	37577.70	31.55
H: SAO			
ACT TOTAL	344	77001.29	48.74
ACT FIRED	281	67113.46	39.31
TOTAL FOR DISTRICT H7 AT ATLANTA	630	145094.74	88.05
	630	10650.00	.27
	630	155744.74	88.32

N		R	
ACT TOTAL	77001.29	48.74	
ACT FIRED	67113.46	39.31	
-----			
TOTAL FOR THE DIVISION	630	88.05	
-----			
	630	.27	
-----			
	630	88.32	
-----			
L: SPO			
N		R	
ACT TOTAL	64812.57	38.19	
ACT FIRED	9512.80	3.97	
-----			
TOTAL FOR DISTRICT LA AT SAN FRANCISCO	242	36.16	
-----			
	242	.27	
-----			
	242	36.43	
-----			
M: SWO			
N		R	
ACT TOTAL	64812.57	38.19	
ACT FIRED	9512.80	3.97	
-----			
TOTAL FOR THE DIVISION	242	36.16	
-----			
	242	.27	
-----			
	242	36.43	
-----			
N: SWO			
N		R	
ACT TOTAL	47834.79	24.32	
ACT FIRED	16683.84	9.46	
-----			
TOTAL FOR DISTRICT MO AT DALLAS	240	33.72	
-----			
	240	.27	
-----			
	240	34.00	
-----			
N: SWO			
N		R	
ACT TOTAL	47834.79	24.32	
ACT FIRED	16683.84	9.46	
-----			
TOTAL FOR DISTRICT MO AT DALLAS	240	33.72	
-----			
	240	.27	
-----			
	240	34.00	
-----			
N: DENVER			
N		R	
ACT TOTAL	65010.48	35.59	
ACT FIRED	9620.21	4.34	
-----			
TOTAL FOR DISTRICT NY AT DENVER	313	43.92	
-----			
	313	.27	
-----			
	313	44.19	
-----			

	M	P	
ACT TOTAL	253		65818.40
ACT PTHEN	60		9528.21
	313		75446.60
			10650.00
			.27
TOTAL FOR THE DIVISION	313		86096.60
COMPLETE TOTAL THIS ASSIGNMENT	3609		913957.54
COMPLETE TOTAL THIS ASSIGNMENT	3609		913957.54



Example 3b

NSRDC 6600 INTERCOM U4.5  
DATE 06/29/77  
TIME 12.23.07.

LOGIN,PURJDAVIDS,1189043801

06/29/77 LOGGED IN AT 12.30.13.  
WITH USER-ID 00  
EQUIP/PORT 02/035

LOGIN UPDATED 06/28/77 TODAY IS 06/29/77  
DEVICE SET PASSWORD, NETED, MARS VI

COMMAND- ATTACH,F,PROFILE,ID-PUAJ

PF CYCLE NO. = 001

COMMAND- BEGIN(EX,F,A-I,T=1,YR=6,NC=DIV12,NF=INL12,DN-INL12DN)

WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,

NO. OF TRIP,FIXED COST/OFFICE,FIXED MAN YR/OFFICE,AVG WAGE/DAY?

IF YES TYPE Y;OTHERWISE TYPE N:

PF CYCLE NO. = 001

PF CYCLE NO. = 002

CM LWA+1 = 212511, LOADER USED 33300BN

WANT TO DELETE ANY DISTRICT? TYPE Y OR N:Y

PLEASE ENTER THE DIVISION NAME(S) AND DISTRICT NO.(S) WHICH ARE TO BE  
DELETED WITH ONE BLANK IN BETWEEN AND ENTER THEM ALL IN ONE LINE

R3 N7

THANK YOU.

STOP

.269 CP SECONDS EXECUTION TIME

PF CYCLE NO. = 001

PF CYCLE NO. = 002

PF CYCLE NO. = 002

CM LWA+1 = 37151B, LOADER USED 512000

END IMAP1

31.303 CP SECONDS EXECUTION TIME

COMMAND- REWIND,OUTPUT

COMMAND- BATCH,OUTPUT,PRINT,YX,CHUN

FILE ICHUN0A SENT, DC=PP

COMMAND- LOGOUT

CPA 36.269 SEC

SS 37.200 SEC

EST. SYSTEM COST \$ 6.68

EST. CONNECT COST \$ 0.17

CONNECT TIME 0 HRS. 4 MIN.

06/29/77 LOGGED OUT AT 12.34.09.

THIS IS A TYPE 1 MAP PROGRAM FOR INLEASING ACTIVITY

THE FOLLOWING VALUES ARE USED IN THE PARAMETERS:

COST/UNIT=	239.000
MAN YR/UNIT=	.140
NO. OF TRIP=	1.000
FIXED COST/OFFICE=	10650.000
FIXED MAN YR/OFFICE=	.273
AVG WAGE/DAY=	64.790

3262 RECORDS READ FROM THE MASTER FILE

THE FOLLOWING DIVISIONS WERE CLOSED- B N

THE FOLLOWING DISTRICTS WERE CLOSED  
B3 N7

HEAD OF EXISTING DIVISION, ASSIGNMENTS

126



### MAP OF EXISTING DISTRICT ASSIGNMENTS

127

MAP OF DIVISION ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE

128

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MAP OF DISTRICT ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE





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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT OF THE EXISTING DISTRICT OFFICE

DIVISION	INLEASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A: LWVD				
	R	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A1 AT MEMPHIS		1	10889.00	.41
	N	4	956.00	.56
ACT TOTAL		4	956.00	.56
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A2 AT NEW ORLEAN		4	11606.00	.83
	N	4	956.00	.56
	R	1	239.00	.14
ACT TOTAL		5	1195.00	.70
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A3 AT ST. LOUIS		5	11845.00	.97
	N	13	3107.00	1.82
	R	2	478.00	.28
ACT TOTAL		15	3585.00	2.10
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A4 AT VICKSBURG		15	14235.00	2.37

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	N				
	R				
		21	5019.00		2.84
		4	956.00		.56
ACT TOTAL					
ACT FIXED					
		25	5975.00		3.58
			42600.00		1.88
TOTAL FOR THE DIVISION		25	48575.00		4.59

	N				
	R				
		85	20315.00		11.90
		35	8365.00		4.90
ACT TOTAL					
ACT FIXED					
		120	20680.00		16.40
			10650.00		.27
TOTAL FOR DISTRICT C1 AT KANSAS CIT		120	39330.00		17.07

	N				
	R				
		564	134796.00		78.96
		271	64769.00		37.94
ACT TOTAL					
ACT FIXED					
		835	199565.00		116.90
			10650.00		.27
TOTAL FOR DISTRICT C2 AT OMAHA		835	210215.00		117.17

	N				
	R				
		649	155111.00		90.46
		304	73134.00		42.84
ACT TOTAL					
ACT FIXED					
		955	228245.00		133.70
			21300.00		.55
TOTAL FOR THE DIVISION		955	249545.00		134.25

	N				
	R				
		0	0.00		0.00
			10650.00		.27
ACT TOTAL					
ACT FIXED					
		0	10650.00		.27
TOTAL FOR DISTRICT D1 AT BOSTON		0	10650.00		.27

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ACT TOTAL		0	0.00	0.00
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		0	10650.00	.27
<hr/>				
FI NAD				
	N	351	83849.00	49.14
	R	17	4063.00	2.38
ACT TOTAL		368	87912.00	51.52
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT E1 AT BALTIMORE		368	98562.00	51.79
<hr/>				
	N	449	107311.00	62.86
	R	20	4700.00	2.80
ACT TOTAL		469	112011.00	65.66
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT E3 AT NEW YORK		469	122661.00	65.93
<hr/>				
	N	65	10755.00	6.30
ACT TOTAL		65	10755.00	6.30
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT E4 AT NORFOLK		65	21405.00	6.57
<hr/>				
	N	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT E4 AT PHILADELPH		1	10889.00	.41
<hr/>				
	N	846	202194.00	118.44
	R	37	8843.00	5.18
ACT TOTAL		883	211037.00	123.62
ACT FIXED			42600.00	1.09
TOTAL FOR THE DIVISION		883	253637.00	124.71
<hr/>				
FI NCD				
	N	5	1195.00	.70
	R	8	1912.00	1.12
ACT TOTAL		13	3107.00	1.82
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT F2 AT CHICAGO		13	13757.00	2.09
<hr/>				
	N	5	1195.00	.70
	R	8	1912.00	1.12
ACT TOTAL		13	3107.00	1.82
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		13	13757.00	2.09



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AT HND	N	2	478.00	.28
ACT TOTAL		2	478.00	.28
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT G2 AT PORTLAND		2	11128.00	.55
	N	191	45449.00	26.76
	R	19	4541.00	2.66
ACT TOTAL		210	50190.00	29.42
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT G3 AT SEATTLE		210	60840.00	29.67
	N	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT G4 AT WALLA WALL		1	10889.00	.41
	N	194	46366.00	27.16
	R	19	4541.00	2.66
ACT TOTAL		213	50907.00	29.82
ACT FIXED			31950.00	.82
TOTAL FOR THE DIVISION		213	82857.00	30.64
H1 HND		0	0.00	0.00
ACT TOTAL		0	0.00	0.00
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT H1 AT HUNTINGTON		0	10650.00	.27
	N	4	956.00	.56
ACT TOTAL		4	956.00	.56
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT H2 AT LOUISVILLE		4	11606.00	.83
	N	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT H3 AT NASHVILLE		1	10889.00	.41
	N	2	478.00	.28
ACT TOTAL		2	478.00	.28
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT H4 AT PITTSBURGH		2	11128.00	.55

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	N		7	1873.00	.98
ACT TOTAL			7	1873.00	.98
ACT FIXED				42600.00	1.09
TOTAL FOR THE DIVISION			7	44273.00	2.07
-----					
K1 S&D					
	R		6	1434.00	.84
ACT TOTAL			6	1434.00	.84
ACT FIXED				10650.00	.27
TOTAL FOR DISTRICT K3 AT JACKSONVIL			6	12084.00	1.11
-----					
	N		276	65486.00	38.36
	R		291	69549.00	40.74
ACT TOTAL			565	135035.00	79.10
ACT FIXED				10650.00	.27
TOTAL FOR DISTRICT K5 AT MOBILE			565	145685.00	79.37
-----					
	N		139	33271.00	19.46
	R		17	4063.00	2.38
ACT TOTAL			156	37284.00	21.84
ACT FIXED				10650.00	.27
TOTAL FOR DISTRICT K6 AT SAVANNAH			156	47934.00	22.11
-----					
	N		413	98707.00	57.82
	R		316	75046.00	43.96
ACT TOTAL			727	173753.00	101.78
ACT FIXED				31950.00	.82
TOTAL FOR THE DIVISION			727	205703.00	102.60
-----					
L1 SPD					
	N		271	64769.00	37.94
	R		26	6214.00	3.64
ACT TOTAL			297	70983.00	41.58
ACT FIXED				10650.00	.27
TOTAL FOR DISTRICT L1 AT LOS ANGELE			297	81633.00	41.85
-----					
	N		135	32265.00	18.90
	R		10	2390.00	1.40
ACT TOTAL			145	34655.00	20.30
ACT FIXED				10650.00	.27
TOTAL FOR DISTRICT L2 AT SACRAMENTO			145	45305.00	20.57
-----					
	N		606	97034.00	56.44
	R		34	8884.00	5.04
ACT TOTAL			640	105918.00	61.48
ACT FIXED				21300.00	.55
TOTAL FOR THE DIVISION			640	126938.00	62.03

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M1 SWD				
	N	1A	4382.00	2.92
	R	12	2888.00	1.68
ACT TOTAL		-----	-----	-----
ACT FIXED		30	7170.00	4.70
			10650.00	.27
TOTAL FOR DISTRICT M1 AT ALBUQUERQUE		-----	-----	-----
		30	17820.00	4.47
	N	11A	28202.00	16.52
	R	73	17447.00	10.22
ACT TOTAL		-----	-----	-----
ACT FIXED		191	45649.00	26.74
			10650.00	.27
TOTAL FOR DISTRICT M2 AT FT. WORTH		-----	-----	-----
		191	56299.00	27.01
	N	5P	12428.00	7.28
ACT TOTAL		-----	-----	-----
ACT FIXED		52	12428.00	7.28
			10650.00	.27
TOTAL FOR DISTRICT M3 AT GALVESTON		-----	-----	-----
		52	23078.00	7.55
	N	1A	3924.00	2.24
	R	13	3107.00	1.82
ACT TOTAL		-----	-----	-----
ACT FIXED		29	6931.00	4.06
			10650.00	.27
TOTAL FOR DISTRICT M4 AT LITTLE ROCK		-----	-----	-----
		29	17581.00	4.33
	N	40	9560.00	5.60
	P	2	478.00	.28
ACT TOTAL		-----	-----	-----
ACT FIXED		42	10038.00	5.88
			10650.00	.27
TOTAL FOR DISTRICT M5 AT TULSA		-----	-----	-----
		42	20688.00	6.15
	N	244	58316.00	34.18
	R	100	23900.00	14.00
ACT TOTAL		-----	-----	-----
ACT FIXED		344	82216.00	48.18
			53250.00	1.37
TOTAL FOR THE DIVISION		-----	-----	-----
		344	135466.00	49.52
COMPLETE TOTAL THIS ASSIGNMENT		-----	-----	-----
		3609	1171401.00	413.10



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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT TO THE CLOSEST DISTRICT OFFICE

DIVISION	INFLASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A1 LMVD	N	124	25049.07	17.27
		59	14317.22	8.26
		-----	-----	-----
		183	39366.29	25.53
		-----	10650.00	.27
ACT TOTAL		183	39366.29	25.53
ACT FIXED		-----	10650.00	.27
TOTAL FOR DISTRICT A1 AT VICKSBURG		183	50016.29	25.81
-----				
	N	124	25049.07	17.27
		59	14317.22	8.26
		-----	-----	-----
		183	39366.29	25.53
		-----	10650.00	.27
ACT TOTAL		183	39366.29	25.53
ACT FIXED		-----	10650.00	.27
TOTAL FOR THE DIVISION		183	50016.29	25.81
-----				
C1 WRD	N	296	74985.18	41.52
		142	36072.40	19.92
		-----	-----	-----
		438	111057.58	61.44
		-----	10650.00	.27
ACT TOTAL		438	111057.58	61.44
ACT FIXED		-----	10650.00	.27
TOTAL FOR DISTRICT C2 AT OMAHA		438	121707.58	61.72
-----				
	N	296	74985.18	41.52
		142	36072.40	19.92
		-----	-----	-----
		438	111057.58	61.44
		-----	10650.00	.27
ACT TOTAL		438	111057.58	61.44
ACT FIXED		-----	10650.00	.27
TOTAL FOR THE DIVISION		438	121707.58	61.72
-----				
D1 NFD	N	209	36727.68	29.02
		14	2591.79	1.95
		-----	-----	-----
		223	39314.46	30.96
		-----	10650.00	.27
ACT TOTAL		223	39314.46	30.96
ACT FIXED		-----	10650.00	.27
TOTAL FOR DISTRICT D4 AT HOSTON		223	49964.46	31.23
-----				

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	N	200	36722.60	20.02
	R	14	2591.79	1.95
ACT TOTAL				
ACT FIRED		223	39314.40	30.96
			10650.00	.27
TOTAL FOR THE DIVISION		223	49964.40	31.23
-----				
FI NAD				
	N	400	131945.37	60.61
	R	17	4507.93	2.39
ACT TOTAL				
ACT FIRED		505	136453.30	71.00
			10650.00	.27
TOTAL FOR DISTRICT F4 AT NEW YORK		505	147103.30	71.27
-----				
	N	400	131945.37	60.61
	R	17	4507.93	2.39
ACT TOTAL				
ACT FIRED		505	136453.30	71.00
			10650.00	.27
TOTAL FOR THE DIVISION		505	147103.30	71.27
-----				
FI NCD				
	N	310	31651.75	42.60
	R	140	14909.05	10.20
ACT TOTAL				
ACT FIRED		450	46661.80	61.96
			10650.00	.27
TOTAL FOR DISTRICT F4 AT CHICAGO		450	57291.80	62.23
-----				
	N	310	31651.75	42.60
	R	140	14909.05	10.20
ACT TOTAL				
ACT FIRED		450	46661.80	61.96
			10650.00	.27
TOTAL FOR THE DIVISION		450	57291.80	62.23
-----				
FI HPD				
	N	211	50512.12	20.50
	R	21	4991.16	2.00
ACT TOTAL				
ACT FIRED		232	55503.27	32.52
			10650.00	.27
TOTAL FOR DISTRICT 01 AT PORTLAND		232	66153.27	32.79
-----				

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	N	211	50512.12	29.56
	R	21	4991.16	2.94
ACT TOTAL		232	55503.27	32.52
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		232	66153.27	32.79
-----				
MI OMO				
	N	218	28128.47	30.08
	R	36	2037.61	4.92
ACT TOTAL		254	30166.08	35.00
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT MI AT CINCINNATI		254	40816.08	35.27
-----				
	N	218	28128.47	30.08
	R	36	2037.61	4.92
ACT TOTAL		254	30166.08	35.00
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		254	40816.08	35.27
-----				
MI SAN				
	N	349	77981.29	48.74
	R	281	67113.46	39.31
ACT TOTAL		630	145094.74	88.05
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT MI AT ATLANTA		630	155744.74	88.32
-----				
	N	349	77981.29	48.74
	R	281	67113.46	39.31
ACT TOTAL		630	145094.74	88.05
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		630	155744.74	88.32
-----				
LI SPD				
	N	282	89268.00	39.86
	R	34	12286.93	5.10
ACT TOTAL		316	101554.93	44.95
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT LI AT SAN FRANCISCO		316	112204.93	45.22
-----				



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	N	282	89268.00	39.04
	R	3A	12286.93	5.10
ACT TOTAL		-----	-----	-----
ACT FIXED		318	101556.93	44.09
		-----	10650.00	.27
TOTAL FOR THE DIVISION		318	112206.93	45.22
-----				
MT SWD				
	N	298	102003.67	42.34
	R	7A	21789.36	10.00
ACT TOTAL		-----	-----	-----
ACT FIXED		376	123083.01	53.34
		-----	10650.00	.27
TOTAL FOR DISTRICT NY AT DALLAS		376	134533.01	53.61
-----				
	N	298	102003.67	42.35
	R	7A	21789.36	10.00
ACT TOTAL		-----	-----	-----
ACT FIXED		376	123083.01	53.34
		-----	10650.00	.27
TOTAL FOR THE DIVISION		376	134533.01	53.61
-----				
COMPLETE TOTAL THIS ASSIGNMENT		-----	-----	-----
		3600	935539.20	907.00
COMPLETE TOTAL THIS ASSIGNMENT		-----	-----	-----
		3600	935539.20	907.00

# APPENDIX D:

## JOB CONTROL CARDS FOR CREATING ACTIVITY MASTER FILES

### CREATE ACQUISITIONMASTER

```
PAJ,CM60000,T500,P3,MT1.
CHARGE,PUAJ,1189043801,RS,I.
FTN.
VSN(TAPE1=CK0103)
REQUEST(TAPE1,MT,HI,NORING,S)
REQUEST,TAPE2,*PF.
LGO.
CATALOG,TAPE2,ACQMASTER,ID=PUAJ.
EOR
    PROGRAM TAPEIN(TAPE1,TAPE2,OUTPUT,TAPE3=OUTPUT)
    INTEGER X(9),YR,DIVDIST,DEPT,TEMP,NR,NM,NP
    NR=NM=NP=0
5   BUFFERIN(1,0) (X(1),X(9))
    IF (UNIT(1))10,20,30
10  YR=SHIFT(X(3),12).AND.MASK(12)
    NR=NR+1
    IF(YR.NE.2L76 GOTO 5
    TEMP=X(1).AND.7777777777777777B
    NM=NM+1
    DEPT=SHIFT(X(1).AND.MASK(6),-12)
    DIVDIST=SHIFT(X(1),6).AND.MASK(12)
    X(1)=DIVDIST.OR.DEPT.OR.TEMP
    WRITE(2,100) (X(I),I=1,8)
100 FORMAT(8A10)
    GOTO 5
30  NP=NP+1
    GOTO 5
20  WRITE(3,102)NR,NM,NP
102 FORMAT(* TOTAL RECORDS READ=*,I10,/,I10,
1* RECORDS ARE SUCCESSFULLY WRITTEN IN THE MASTER FILE OF FY '76*
2,/,I10,* RECORDS ARE FAIL DUE TO PARITY ERROR*)
    STOP
    END
<BOTTOM OF FILE>
E> W RC
RC WRITTEN.
E> QUIT
COMMAND- REWIND,RC
COMMAND- PURGE,W2,CREATEACQUISITIONMASTER,ID=PUAS
PR ID= PUWS PFN=CREATEACQUISITIONMASTER
PR CY= 001 00000003 PRUS $0000.01 /DAY
```

COMMAND- CATALOG,RC,CREATEACQUISITIONMASTER,ID=PWWS  
INITIAL CATALOG  
RP = 030 DAYS  
CT ID= PUWS PFN=CREATEACQUISITIONMASTER  
CT CY= 001 00000003 PRUS \$0000.01 /DAY  
COMMAND- RETURN,W2  
COMMAND- FILES  
LOCAL FILES--

SORTACQUISITIONMASTER:

PAJ,CM100000,T100,P3.  
CHARGE,PUAJ,1189043801,RS,I.  
FTN.  
ATTACH,TAPE1,ACQMASTER,ID=PUAJ  
REQUEST(TAPE5,\*PF)  
LIBRARY(COBOL)  
RFL,100000.  
LGO.  
REDUCE.  
CATALOG,TAPE5, AMS6,ID=PUAJ  
\*EOR  
PROGRAM SORT(TAPE1,TAPE5,OUTPUT,TAPE7=OUTPUT)  
CALL SMSORT(80)  
CALL SMFILE("SORT","CODED",1,"REWIND")  
CALL SMFILE("OUTPUT","CODED",5,"REWIND")  
CALL SMKEY(1,1,8,0,"DISPLAY","DISPLAY","A")  
CALL SMEND  
WRITE(7,100)  
100 FORMAT(\*1NORMAL COMPLETION\*)  
STOP  
END

SORTACQUISITIONLATLONG:

PAJ,CM100000,T100,P3.  
CHARGE,PUAJ,1189043801,RS,I.  
FTN.  
ATTACH,TAPE1,ALLS,ID=PUAJ.  
REQUEST(TAPE5,\*PF)  
LIBRARY(COBOL)  
RFL,100000.  
LGO.  
REDUCE.  
CATALOG,TAPE5,ALLS,ID=PUAJ  
\*EOR



```
PROGRAM SORT(TAPE1,TAPE5,OUTPUT,TAPE7=OUTPUT)
CALL SMSORT(22)
CALL SMFILE("SORT","CODED",1,"REWIND")
CALL SMFILE("OUTPUT",CODED",5,"REWIND")
CALL SMKEY(1,1,8,0,"DISPLAY", "DISPLAY","A")
CALL SMEND
100 FORMAT(*1NORMAL COMPLETION*)
WRITE(7,100)
STOP
END
```

## DISPOSAL TAPETODISK

POLIN X333

PWSCM, CM50000, I300, MT1, P4.  
CHARGE, PUAJ, 1189043801.  
FTN.

VSN(TAPE1=CK1266/CK1267)  
COMMENT, TWO TAPE REELS IN THIS FILE  
REQUEST, TAPE1, MT, HI, NORING, S. TWO TAPE REELS IN  
COMMENT. THIS FILE. TWO TAPE REELS IN THIS FILE  
REQUEST, TAPE4, \*PF.  
REQUEST, TAPE2, \*PF  
LGO.

CATALOG, TAPE2, DISPOSALDISKFILE, ID=PUAJ, AC=1189043801.  
PROGRAM CITY(TAPE1, TAPE2=4097/216, OUTPUT, TAPE3=OUTPUT)  
INTEGER X(22), COUNT1, COUNT2

WRITE(3,305)  
305 FORMAT(\*1\*, T50, \*DISPOSALS RECORD FORMATION PROGRAM\*)  
COUNT1=0

COUNT2=0

5 BUFFERIN (1,0) (X(1), X(22))  
IF (UNIT(1)) 10,20,30

10 CONTINUE

WRITE(2,306) (X(I), I=1,22)

FORMAT(21A10,A6)

COUNT1=COUNT1+1

GOTO 5

20 WRITE(3,300) COUNT1, COUNT2

GOTO 21

CONTINUE

COUNT2=COUNT2+1

GOTO 5

21 WRITE(3,304) COUNT1, COUNT2

STOP

300 FORMAT(1X, \*EOF ENCOUNTERED\*, /, 1X, I6, \* RECORDS READ SUCCESSFULLY\*,  
1/, 1X, I6, \* TOTAL RECORDS (INCLUDING ERRORS\*)

304 FORMAT(1X, \*PROG TERMINATED\*, /, 1X, I6, \* RECORDS READ SUCCESSFULLY\*,  
1/, 1X, I6, \* PARITY ERRORS\*)

END

000010  
000110  
000210  
000310  
000410  
000510  
000610  
000710  
000810  
000910  
001010  
001310  
001410  
001510  
001610  
001710  
001810  
001910  
002110  
002120  
002210  
002310  
002410  
002610  
002710  
002810  
002910  
003010  
003110  
003210  
003510  
003610  
003710  
004010  
004110  
004210

CREATEDISPOSALMASTER

PWSCM, CM75000, T600, MT1, P2.

CHARGE, PUAJ, 1189043801.

FTN, OPT=2.

ATTACH, TAPE1, DISPOSALDISKFILE, ID=PUAJ, AC=1189043801.

REQUEST, TAPE2, \*PF.

LG0.

CATALOG, TAPE2, DISPOSALMASTER, ID=PUAJ, AC=1189043801.

PROGRAM CITY(TAPE1=216/4097, TAPE2, OUTPUT, TAPE3=OUTPUT)

INTEGER IDATE(3), COUNT, COUNT1, STATES(52), IM(3), ID(3), IY(3), COUNTW

COUNT=COUNT1=NOUNITS=N076=0

STATES(1)=10HALABAMA

STATES(2)=10HALASKA

STATES(3)=10HARIZONA

STATES(4)=10HARKANSAS

STATES(5)=10HCALIFORNIA

STATES(6)=10HCOLORADO

STATES(7)=10HCONNECTICU

STATES(8)=10HDELAWARE

STATES(9)=10HDIST OF CO

STATES(10)=10HFLORIDA

STATES(11)=10HGEORGIA

STATES(12)=10HHAWAII

STATES(13)=10HIDAHO

STATES(14)=10HILLINOIS

STATES(15)=10HINDIANA

STATES(16)=10HIOWA

STATES(17)=10HKANSAS

STATES(18)=10HKENTUCKY

STATES(19)=10HLOUISIANA

STATES(20)=10HMAINE

STATES(21)=10HMARYLAND

STATES(22)=10HMASS.

000010  
000020  
000030  
000040  
000060  
000070  
000080  
000110  
000120  
000130  
000140  
000150  
000160  
000170  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000300  
000310  
000320  
000330  
000340  
000350



STATES(23)=10HMICHIGAN  
STATES(24)=10HMINNESOTA  
STATES(25)=10HMISSISSIPP  
STATES(26)=10HMISSOURI  
STATES(27)=10HMONTANA  
STATES(28)=10HNEBRASK  
STATES(29)=10HNEVADA  
STATES(30)=10HNEW HAMP.  
STATES(31)=10HNEW JERSEY  
STATES(32)=10HNEW MEXICO  
STATES(33)=10HNEW YORK  
STATES(34)=10HN. CAROLIN

000360  
000370  
000380  
000390  
000400  
000410  
000420  
000430  
000440  
000450  
000460  
000470

# SORTDISPOSALMASTER

PWSCM, CM75000, T75, P4.  
 CHARGE, PUAJ, 1189043801, RS, I.  
 FTN.

ATTACH, TAPE1, DISPOSALMASTER, ID=PUAJ.  
 REQUEST(TAPE2, \*PF)  
 LIBRARY(COBOL)  
 RFL, 75000.  
 LGO.

REDUCE.

CATALOG, TAPE2, DISPOSALMASTERSORTED, ID=PUAJ.  
 PROGRAM ONEFILE(TAPE1, TAPE2, OUTPUT, TAPE6=OUTPUT)

CALL SMSORT (37)

CALL SMFILE("SORT", "CODED", 1, "REWIND")

CALL SMFILE("OUTPUT", "CODED", 2, "REWIND")

CALL SMKEY(1, 1, 25, 0, "DISPLAY", "DISPLAY", "A")

CALL SMEND

WRITE(6, 100)

FORMAT(\*INFORMAL COMPLETION\*)

STOP

END

5

100

000010  
 000020  
 000030  
 000040  
 000050  
 000060  
 000070  
 000080  
 000090  
 000100  
 000120  
 000130  
 000140  
 000150  
 000160  
 000170  
 000180  
 000190  
 000200  
 000210

# SORTDISPOSALLATLONG

PWSCM,CW75000,T75,P4.  
CHARGE,PUWS,1189056946,RS,I.

FTN.

ATTACH,TAPE1,DLATLONGCARDS,ID=PUWS.

REQUEST(TAPE2,\*PF)

REQUEST(TAPE3,\*PF)

LIBRARY (COBOL)

RFL,75000.

LGO.

REDUCE.

CATALOG,TAPE2,DLATLONGCARDSSORTED,ID=PUWS.

PROGRAM ONEFILE(TAPE1,TAPE2,TAPE3,OUTPUT,TAPE6=OUTPUT)

C READ FROM TAPE 1, REFORMAT TO TAPE 3, AND SORT TO TAPE2

1 CONTINUE

READ(I,88) ICITY1,ICITY2,ISTATE,LD,LM,LLD,LLM

IF (EOF(1)), 20,2

2 WRITE(3,98)ICITY1,ICITY2,ISTATE,LD,LM,LLD,LLM

99 FORMAT(A10,A5,4X,A10,10X,2I2,I3,I2)

98 FORMAT (A10,A5,A10,2I2,I3,I2)

GOTO 1

20 CONTINUE

REWIND 3

CALL SMSORT (34)

CALL SMFILE("SORT","CODED",3,"REWIND")

CALL SMFILE("OUTPUT","CODED",2,"REWIND")

CALL SMKEY(1,1,25,0,"DISPLAY","DISPLAY","A")

CALL SMEND

5 WRITE(6,100)

100 FORMAT(\*NORMAL COMPLETION\*)

STOP

END

000100  
000110  
000120  
000130  
000170  
000175  
000180  
000190  
000200  
000210  
000240  
000255  
000260  
000265  
000270  
000272  
000275  
000280  
000285  
000290  
000295  
000300  
000310  
000320  
000330  
000340  
000350  
000415  
000417  
000420  
000430



# CREATEINLEAEMASTER

PWSCM,CM75000,T100,P4,MT1.  
CHARGE,PUAJ,1189043801.

FTN,OPT=2.

REQUEST(TAPE2,\*PF)

REQUEST(TAPE4,\*PF)

VSN(TAPE1=CK1265)

REQUEST,TAPE1,MT,HI,NORING,S.

LGO.

CATALOG,TAPE2,INLEAEMASTER,ID=PUAJ,AC-1189043801.

CATALOG,TAPE4,INOMATCH,ID=PUAJ,AC=1189043801.

PROGRAM INGO (TAPE2,TAPE3,INPUT,OUTPUT,TAPE1,TAPE5=INPUT,

\*TAPE6=OUTPUT,TAPE4)

INTEGER X(20),PARITY,ICOUNT,IOCONUS,BADCODE,ACODES(37),

\*ICODES(37)

DATA ICODES /4LOXJ0,4LOXK0,4LOXL0,4LOXP0,4LOXRO,4LOXT0,

\*4LO7Y0,

\*4LOXU0,4LOXW0,4LOXW1,4LOXZ0,4LOX00,4LO700,4LO701,4L2SK0,

\*4LOYAO,

\*4LOYB0,4LOYC0,4LOYD0,4LOYE0,4LOYF0,4LOYJ0,4L2SNO,4LOY70,

\*4LOYL0,4LOYL3,4LOYM0,4LOYM1,4LOYM2,4LOYN0,4LOYQ0,4LOYR0,

\*4LOYT0,

\*4LOYU0,4LOYV0,4LOYZ0,4LOY10/

DATA ACODES /2HA1,2HA2,2HA3,2HA4,2HC1,2HC2,2HD1,

\*2HE1,

\*2HE3,2HZZ,2HE4,2HE5,2HF2,2HZZ,

\*2HG1,2HG2,2HG3,2HG4,2HH1,2HH2,2HH3,2HH4,2HZZ,2HKK3,2HZZ,

\*2HK5,2HZZ,2HZZ,2HK6,2HL1,2HL2,

\*2HM1,2HM2,2HM3,2HM4,2HM5/

WRITE(3,108)

108 FORMAT(\*IRECORDS OUTSIDE THE CONTINENTAL U.S.\*)

ICOUNT=IOCONUS=BADCODE=PARITY=0

WRITE(4,109)

109 FORMAT(\*IRECORDS WITH UNMATCHED CODES\*)

IJK=INRTC=IN=IR=IT=IB=IZ=0

000010  
000020  
000030  
000040  
000055  
000060  
000070  
000080  
000090  
000100  
000120  
000130  
000140  
000150  
000160  
000170  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000298  
000299  
000300  
000301  
000302  
000310

000320  
000330  
000340  
000350  
000360  
000370  
000380  
000390  
000400

000100  
000110  
000120  
000130  
000160  
000180  
000190  
000200  
000210  
000230  
000255  
000310  
000320  
000330  
000335  
000340  
000350  
000415  
000417  
000420  
000430

9 CONTINUE  
BUFFERIN (1,0) (X(1),X(20))  
IF (UNIT(1)) 10,20,30  
10 CONTINUE  
IJK=IJK+1  
IF(IJK.GT.100) GOTO 20  
IYR=SHIFT(X(13),42).AND.MASK(12)  
IF(IYR.NE.2L76) GOTO 9  
INRT=SHIFT(X(13).36).AND.MASK(6)

# SORTINLEAEMASTER

PWSCM,CM100000,T75,P4.  
CHARGE,PUAJ,1129043801,RS,I.  
FTN,OPT=2.  
ATTACH,TAPE1,IMS6,ID=PUAJ.  
REQUEST(TAPE5,\*PF)  
LIBRARY(COBOL)  
RFL,100000.  
LGO.  
REDUCE.  
CATALOG,TAPE5,IMS6,ID=PUAJ.  
PROGRAM SORT(TAPE1,TAPE5,OUTPUT,TAPE7=OUTPUT)  
CALL SMSORT(43)  
CALL SMFILE("SORT","CODED",1,"REWIND")  
CALL SMFILE("OUTPUT","CODED",5,"REWIND")  
CALL SMKEY(1,1,17,0,"DISPLAY","DISPLAY","A")  
CALL SMKEY(29,1,1,0,"DISPLAY","DISPLAY","A")  
CALL SMEND  
5 WRITE(7,100)  
100 FORMAT(\*INORMAL COMPLETION\*)  
STOP  
END

CRUNCH 1

PAJ, CM 60000, T20, P4.  
CHARGE, PUAJ, 1189043801, RS.1.  
REQUEST, TAPE1, \*PF.  
ATTACH, TAPE5, IMS TR, (or INLEASMASTER SORTED) ID=PUAJ.  
FIN.

LGO

CATALOG, TAPE1, IMS YR, ID=PUAJ  
PROGRAM CRUNCH(TAPE1, TAPE5, OUTPUT, TAPE9=OUTPUT)  
INTEGER M1, M2, I1, I2, COUNT, IDD, INR, MDD, MNR, IUNIT  
READ(5, 202) M1, M2, MDD, MNR  
I1=M1  
I2=M2  
IDD=MDD  
INR=MNR  
IUNIT=1  
COUNT=1

150

5 READ(5, 202) M1, M2, MDD, MNR  
IF (EOF (5).NE.0) GOTO 80  
COUNT=COUNT+1

20 IF (MNR.NE.INR) GOTO 10  
IF (M1-I1) 10, 20, 10  
IF (M2-I2) 10, 60, 10  
60 IUNIT=IUNIT+1  
GOTO 5

10 WRITE(1, 240) I1, I2, IDD, INR, IUNIT

I1=M1  
I2=M2  
INR=MNR  
IDD=MDD  
IUNIT=1  
GOTO 5

202 FORMAT(R9, R8, 9X, A2, A1)  
240 FORMAT(R9, R8, 9X, A2, A1, I5)

000100  
000110  
000120  
000130  
000140  
000171  
000172  
000173  
000174  
000180  
000190  
000200  
000205  
000210  
000220  
000260  
000270  
000280  
000290  
000300  
000320  
000340  
000360  
000370  
000380  
000390



000400  
000410  
000420  
000430

80 WRITE(9,250)COUNT  
250 FORMAT(\*EXECUTION COMPLETE;TOTAL RECORD READ=\*I10)  
STOP  
END

# UTILIZATIONTAPETODISK

PWSCM,CM60000,T500,P3,MT1.  
CHARGE,PUMS,1189056946.

FTN,OPT=2,R=2.

VSN(TAPE1=CK1265)

REQUEST,TAPE1,MT,HI,NORING,S.

REQUEST(TAPE2,\*PF)

LGO.

CATALOG,TAPE2,UTILIZATIONFILE,ID=PUMS,AC=1189056946.

PROGRAM INTR(TAPE1=/200,TAPE2=/200,OUTPUT,TAPE3=OUTPUT)

INTEGER COUNT1,COUNT2,X(20),COUNTR

WRITE(3,305)

305 FORMAT(\*1\*,T50,\*TRANSFER OF UTILIZATION TAPE\*)

COUNT1=COUNTR=0

5 BUFFERIN (1.0) (X(1),X(20))

IF (UNIT(1)) 10,20,30

10 CONTINUE

COUNTR=COUNTR+1

C IF (COUNTR.GE.250) GOTO 21

IEFF=SHIFT(X(12),-24).AND.777777777777B

ITEM=SHIFT(X(12),12).AND.7777777770000B

ITEMP=SHIFT(X(13),12).AND.7777B

ITEM=ITEM.OR.ITEMP

IF (IEFF.GT.6R760630) GOTO 5

IF (ITEM.EQ.6RINDEF ) GOTO 11

IF (ITEM.LT.IEFF) GOTO 11

IF (ITEM.LT.6R750701) GOTO 5

11 CONTINUE

WRITE(2,100) (X(I),I=1,20)

FORMAT(20A10)

COUNT1=COUNTR+1

C IF (COUNT1.GE.250) GOTO 21

GOTO 5

000010  
000020  
000030  
000040  
000050  
000060  
000070  
000080  
000100  
000110  
000120  
000130  
000140  
000160  
000170  
000180  
000185  
000186  
000187  
000188  
000189  
000190  
000191  
000192  
000193  
000194  
000195  
000200  
000210  
000220  
000230  
000240

20	WRITE(3,300) COUNTR,COUNT2,COUNT1	000250
	STOP	000260
30	WRITE(3,301) COUNT2,COUNT1	000270
	COUNT2=COUNT2+1	000280
	GOTO 5	000290
21	WRITE(3,304) COUNTR, COUNT2,COUNT1	000300
	STOP	000310
300	FORMAT(1X,*EOF ENCOUNTERED*,/,1X,I6,* RECORDS READ SUCCESSFULLY*,	000320
	1/,1X,I6,* PARITY ERRORS*/	000330
	2//,1X,I6,* RECORDS WRITTEN *)	000335
301	FORMAT (1X,*PARITY ERROR NUMBER*,I6,/,1X,I6,	000340



# SORTUTILIZATIONFILE

```

PWSCM,CM100000,T75,P4.
CHARGE,PUMS,1189056946,RS,I.
FTN,OPT=2.
ATTACH,TAPE1,UTILIZATIONFILE,ID=PUMS.
REQUEST(TAPE5,*PF)
LIBRARY(COBOL)
RFL,100000.
LGO.
REDUCE.
CATALOG,TAPE5,UTILIZATIONFILESORTED,ID=PUMS.
PROGRAM SORT(TAPE1=/200,TAPE5=/200,OUTPUT,TAPE7=OUTPUT)
CALL SMSORT(200)
CALL SMFILE("SORT","CODED",1,"REWIND")
CALL SMFILE("OUTPUT","CODED",5,"REWIND")
CALL SMKFY(14,1,16,0,"DISPLAY","DISPLAY","A")
CALL SMKFY(2,1,1,0,"DISPLAY","DISPLAY","A")
CALL SMKFY(4,1,10,0,"DISPLAY","DISPLAY","A")
CALL SMEND
5 WRITE(7,100)
100 FORMAT(*1NORMAL COMPLETION*)
STOP
END

```

```

000100
000110
000120
000130
000160
000180
000190
000200
000210
000230
000255
000310
000320
000330
000340
000342
000344
000350
000415
000417
000420
000430

```

# CREATEUTILIZATIONMASTER

PWSCM,CM75000,T100,P4,MT1.  
CHARGE,PUWS,1189056946.

FTN,OPT=2.

REQUEST(TAPE2,\*PF)

ATTACH,TAPE1,UTILIZATIONFILESORTED,ID=PUWS.  
LGO.

CATALOG,TAPE2,UTILIZATIONMASTER76,ID=PUWS,AC-1189056946.

PROGRAM INGO(TAPE2,TAPE3,INPUT,OUTPUT,TAPE1=/200,TAPE5=INPUT,  
\*TAPE6=OUTPUT,TAPE4)

INTEGER X(20),PARITY,ICOUNT,IOCONUS,BADCODE,ACODES(38),  
\*ICODES(38)

DATA ICODES /4LOXJ0,4LOXK0,4LOXL0,4LOXP0,4LOXR0,4LOXT0,  
\*4LO7Y0,

\*4LOXU0,4LOXW0,4LOXW1,4LOXZ0,4LOX00,4LO700,4LO701,4L2SK0,  
\*4LOYA0,

\*4LOYR0,4LOYC0,4LOYD0,4LOYE0,4LOYF0,4LOYJ0,4L2SNO,4LOY70,  
\*4LOYL0,4LOYL3,4LOYM0,4LOYM1,4LOYM2,4LOYN0,4LOYQ0,4LOYR0,  
\*4LOYT0,

\*4LOYU0,4LOYV0,4LOYZ0,4LOY10,4LOX60/  
DATA ACODES /2HA1,2HA2,2HA3,2HA4,2HC1,2HC2,2HD1,

\*2HF1,  
\*2HF3,2HZZ,2HE4,2HE5,2HF2,2HZZ

\*2HG1,2HG2,2HG3,2HG4,2HH1,2HH2,2HH3,2HH4,2HZZ,2HK3,2HZZ,

\*2HK5,2HZZ,2HZZ,2HK6,2HL1,2HL2,  
\*2HM1,2HM2,2HM3,2HM4,2HM5,2HF2/  
IJK=0

LASTCON=LASTC02=LASTIDD=0  
COUNTH=BADCODE=COUNTR=0

CONTINUE

9 READ(1,100) IDD,ICON,ICON2,ISC,ICITY1,ICITY2

100 FORMAT(5X,A4,4X,2R8,3X,A2,24X,A8,A7)

000100  
000110  
000120  
000130  
000140  
000150  
000160  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000300  
000310  
000320  
000330  
000340  
000350  
000360  
000370  
000380  
000390  
000400  
000410

```

10 IF(EOF(1)) 20,10
   CONTINUE
   COUNTR=COUNTR+1
   IDD=IDD.AND.777777700 00000000000B
   IJK=IJK+1
   C IF(IJK.GT.100) GOTO 20
     IF(ICON-LASTCON) 16,11,16
     IF(ICON2-LASTC02) 16,12,16
     IF(IDD-LASTIDD) 16,9,16
     CONTINUE
     DO 99 I=1,38
     IF(ICODES(I).EQ.IDD) GOTO 13
     CONTINUE

```

```

000420
000430
000440
000450
000460
000470
000480
000490
000500
000510
000520
000530
000540

```



# SortUTILIZATIONMASTER

PMSCM,CM100000,T75,P3.  
CHARGE,PUWS,1189056946,RS,I.  
FTN,OPT=2.

ATTACH,TAPE1,UTILIZATIONMASTER76,ID=PUWS.

REQUEST(TAPE5,\*PF)

LIBRARY(COBOL)

RFL,100000.

LGO.

REDUCE.

CATALOG,TAPE5,UTILIZATIONMASTER76SORTED,ID=PUWS.

PROGRAM SORT(TAPE1,TAPE3,TAPE5,TAPE6,OUTPUT,TAPE7=OUTPUT)

CALL SMSORT(28)

CALL SMFILE("SORT","CODED",1,"REWIND")

CALL SMFILE("OUTPUT","CODED",5,"REWIND")

CALL SMKEY(1,1,17,0,"DISPLAY","DISPLAY","A")

CALL SMEND

WRITE(7,100)

FORMAT(\*1NORMAL COMPLETION\*)

STOP

END

000100  
000110  
000120  
000130  
000160  
000180  
000190  
000200  
000210  
000230  
000255  
000310  
000320  
000330  
000340  
000350  
000415  
000417  
000420  
000430

# CRUNCHU

PAJ,CM60000,T20,P4.  
CHARGE,PUAJ,1189043801,RS,1.  
FTN.

REQUEST,TAPE1,\*PF.  
ATTACH,TAPE5,UTILIZATIONMASTERSORTED,ID=PUAJ.  
LGO.

CATALOG,TAPE1,UMS YR,ID=PUAJ

PROGRAM CRUNCH(TAPE1,TAPE5,OUTPUT,TAPE9=OUTPUT)

INTEGER M1,M2,I1,I2,COUNT,IDD,MDD,IUNIT

READ(5,202)M1,M2,MDD

I1=M1

I2=M2

IDD=MDD

IUNIT=1

COUNT=1

5 READ(5,202)M1,M2,MDD  
IF(EOF(5).NF.0) GOTO 80

COUNT=COUNT+1

IF(M1-I1) 10,20,10

20 IF(M2-I2) 10,60,10

60 IUNIT=IUNIT+1

GOTO 5

10 WRITE(1,240)I1,I2,IDD,IUNIT

I1=M1

I2=M2

IDD=MDD

IUNIT=1

GOTO 5

202 FORMAT(R9,R8,9X,A2)

240 FORMAT(R9,R8,9X,A2,I5)

80 WRITE(9,250)COUNT

250 FORMAT(\*EXECUTION COMPLETE;TOTAL RECORD READ=\*,I10)  
STOP  
END

000100  
000110  
000120  
000130  
000140  
000171  
000173  
000174  
000180  
000190  
000200  
000210  
000220  
000260  
000270  
000280  
000290  
000300  
000340  
000360  
000370  
000380  
000390  
000400  
000410  
000420  
000430

# COMPLIANCE TAPETODISK

POLIN X333

PWSCM,CM60000,T700,MT1.  
CHARGE,PUWS,1189056946.

FTN.OPT=2,R-2.

VSN(TAPE1=CK1268)

REQUEST,TAPE1,MT.HI,NORING,S.

REQUEST,TAPE5,\*PF.

LGO.

CATALOG,TAPE5,COMPLIANCEFILE,ID=PUWS.

PROGRAM CITY(TAPE1,OUTPUT,TAPE3=OUTPUT,TAPE5)

INTEGER Z(64,2),COUNTR,COUNTW,PARITY

WRITE(3,305)

305 FORMAT(\*1\*,T50,\* COMPLIANCE TAPE TO DISK\*)

COUNTR=0

COUNTW=0

5 BUFFERIN (1,0) (Z(1,1),Z(64,2)

IF (UNIT(1)) 10,20,30

10 CONTINUE

COUNTR=COUNTR+1

WRITE(5,1) ((Z(I,J),I=1,13),(Z(I,J),I=13,26).

\* (Z(I,J),I=26,39),(7(I,J),I=39,52),(Z(I,J),I=52,64),

\*J=1,2)

1 FORMAT(12A10,A8/,R2,12A10,A6/,R4,12A10,A4/,

\*R6,12A10,A2/,R8,12A10/,12A10,A8/

\*R2,12A10,A6/,R4,12A10,A4/,R6,12A10,A2/P8,12A10)

COUNTW=COUNTW+1

GOTO 5

20 WRITE(3,300) COUNTR,PARITY,COUNTW

GOTO 31

30 CONTINUE

PARITY=PARTIY+1

WRITE(3,301) COUNTR,PARITY

GOTO 5

000010  
000020  
000030  
000040  
000050  
000060  
000070  
000075  
000090  
000100  
000110  
000120  
000130  
000140  
000150  
000160  
000165  
000166  
000170  
000180  
000190  
000200  
000210  
000220  
000225  
000260  
000270  
000280  
000285  
000287  
000290  
000300



31 CONTINUE  
STOP

300 FORMAT(1X,\*EOF ENCOUNTERED\*,/,1X,I6,\* RECORDS READ SUCCESSFULLY\*,  
1/,1X,I6,\* PARITY ERRORS\*/  
2/,1X,I6,\* RECORDS WRITTEN\*)  
301 FORMAT(1X,\*PARITY ERROR RECORD\*,I6,/,1X,I6.  
1\* PARITY ERRORS SO FAR\*)  
END

000310  
000320  
000470  
000480  
000485  
000490  
000500  
000560

# CREATECOMPLIANCEMASTER

PWSCM,CW75000,T700,P4.  
CHARGE,PUAJ,1189043801.

FTN,OPT=2.

REQUEST(TAPE2,\*PF)

ATTACH,TAPE1,COMPLIANCEFILE,ID=PUAJ.

LGO.

CATALOG,TAPE2,COMPLIANCEMASTER,ID=PUAJ,AC=1189043801.

PROGRAM INGO(TAPE2,TAPE3,INPUT,OUTPUT,TAPE1,TAPE5=INPUT,

\*TAPE6=OUTPUT)

INTEGER PARITY,ICOUNT,IOCONUS,BADCODE,ACODES(38),

\*ICODES(38)

DATA ICODES /4LOXJ0,4LOXK0,4LOXL0,4LOXP0,4LOXR0,4LOXT0,

\*4LO7Y0,

\*4LOXU0,4LOXW0,4LOXW1,4LOXZ0,4LOX00,4LO700,4LO701,4L2SK0,

\*4LOYA0,

\*4LOYR0,4LOYC0,4LOYD0,4LOYE0,4LOYF0,4LOYJ0,4L2SN0,4LOY70,

\*4LOYL0,4LOYL3,4LOYM0,4LOYM1,4LOYM2,4LOYN0,4LOYO0,4LOYR0,

\*4LOYT0,

\*4LOYU0,4LOYV0,4LOYZ0,4LOY10,4LOX60/

DATAACODES /2HA1,2HA2,2HA3,2HA4,2HC1,2HC2,2HD1,

\*2HF1,

\*2HF3,2HZZ,2HE4,2HE5,2HF2,2HZZ

\*2HG1,2HG2,2HG3,2HG4,2HH1,2HH2,2HH3,2HH4,2HZZ,2HK3,2HZZ,

\*2HK5,2HZZ,2HZZ,2HK6,2HL1,2HL2,

\*2HM1,2HM2,2HM3,2HM4,2HM5,2HF2/

ICOUNT=BADCODE=PARITY=0

IJK=0

9 CONTINUE

READ(1,100) IDD1,IFY,ISC,IEFF,ITERM,ISTATE,INSTAL1,INSTAL2,INSTAL3

1,INSTAL4,IDD2

100 FORMAT(1X,R4,31X,R2,6X,R2,1X,R6,R6,16X,R6,2X,3A10,A3,3X,R2)

IF (EOF(1)) 20,10

000010  
000020  
000030  
000040  
000060  
000070  
000080  
000110  
000120  
000130  
000140  
000150  
000160  
000170  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000320  
000330  
000340  
000350  
000360  
000370

```

10  CONTINUE
    IJK=IJK+1
    IDD1=SHIFT( IDD1,36)
    IF( IJK.GT.250) GOTO 20
    IF( IEFF.GT.6R750630) GOTO 9
    IF( ITERM.EQ.6RINDEF ) GOTO 3
    IF( IEFF.LT. ITERM.AND. ITERM.LT.6R740701) GOTO 9
    CONTINUE
    DO 12 I=1,38
    IF ( ICODES(I).EQ. IDD1 ) GOTO 13
    CONTINUE
12

```

```

000380
000390
000395
000400
000410
000420
000430
000440
000450
000460
000470

```



```

PWSCM,CW75000,T700,P4.
CHARGE,PUAJ,1189043801.
FTN,OPT=2.
REQUEST(TAPE2,*PF)
ATTACH,TAPE1,OUTGRANTFILE IF OUTGRANTFILE HAS BEEN CREATED HERE, WE MAY USE IT
*76,ID=PUAJ
LGO.
CATALOG,TAPE2,COMPLIANCEMASTER76,ID=PUAJ,AC=1189043801.
PROGRAM INGO(TAPE2,TAPE3,INPUT,OUTPUT,TAPE1,TAPE5=INPUT,
*TAPE6=OUTPUT)
INTEGER PARITY, ICOUNT, IOCONUS,BADCODE,ACODES(38),
*ICODES(38)
DATA ICODES /4LOXJ0,4LOXK0,4LOXL0,4LOXP0,4LOXR0,4LOXT0,
*4LO7Y0,
*4LOXU0,4LOXW0,4LOXW1,4LOXZ0,4LOX00,4LO700,4LO701,4L2SK0,
*4LOYA0,
*4LOYB0,4LOYC0,4LOYD0,4LOYE0,4LOYF0,4LOYJ0,4L2SNO,4LOY70,
*4LOYL0,4LOYL3,4LOYM0,4LOYM1,4LOYM2,4LOYN0,4LOYQ0,4LOYR0,
*4LOYT0,
*4LOYU0,4LOYV0,4LOYZ0,4LOYT0,4LOX60/
DATA ACODES /2HA1,2HA2,2HA3,2HA4,2HC1,2HC2,2HD1,
*2HF1,
*2HF3,2HZZ,2HE4,2HE5,2HF2,2HZZ
*2HG1,2HG2,2HG3,2HG4,2HH1,2HH2,2HH3,2HH4,2HZZ,2HKK3,2HZZ,
*2HK5,2HZZ,2HZZ,2HK6,2HL1,2HL2,
*2HM1,2HM2,2HM3,2HM4,2HM5,2HF2/
ICOUNT=BADCODE=PARITY=0
IJK=0
9 CONTINUE
READ(1,100) IDD1,IFY,ISC,IEFF,ITERM,ISTATE,INSTAL1,INSTAL2,INSTAL3
1,INSTAL4,IDD2
100 FORMAT(1X,R4,31X,R2,6X,R2,1X,R6,R6,16X,R6,2X,3A10,A3,3X,R2)
IF(EOF(1)) 20,10
10 CONTINUE
000010
000020
000030
000040

000060
000070
000080
000110
000120
000130
000140
000150
000160
000170
000180
000190
000200
000210
000220
000230
000240
000250
000260
000270
000280
000290
000320
000330
000340
000350
000360
000370
000380

```

```

C      IJK=IJK+1
      IDD1=SHIFT(IDD1,36)
      IF(IJK.GT.250) GOTO 20
      GOTO 9
      IF (ITEM.EQ.6RINDEF ) GOTO 3
      IF(IFFF.LT.ITEM.AND.ITEM.LT.6R750701) GOTO 9
      CONTINUE
      DO 12 I=1,38
      IF (ICODES(I).EQ.IDD1) GOTO 13

```

```

000390
000395
000400
000410
000420
000430
000460
000490
000500

```

# SORTCOMPLIANCEMASTER

PWSCM,CM100000,T100,P4.  
CHARGE,PUAJ,1189043801,RS,I,  
FTN.

ATTACH,TAPE1,COMPLIANCEMASTER76,ID=PUAJ.

REQUEST(TAPE2,\*PF)

LIBRARY(COBOL)

RFL,100000

LGO.

REDUCE.

CATALOG,TAPE2,CMS6,ID=PUACJ.

PROGRAM ONEFILE(TAPE1,TAPE2,OUTPUT,TAPE6=OUTPUT)

CALL SMSORT(43)

CALL SMFILE("SORT","CODED",1,"REWIND")

CALL SMFILE("OUTPUT","CODED",2,"REWIND")

CALL SMKFY(1,1,43,0,"DISPLAY",DISPLAY,"A")

CALL SMEND

5 WRITE(6,100)

100 FORMAT(\*NORMAL COMPLETION\*)

STOP

END

000100  
000110  
000120  
000130  
000170  
000180  
000190  
000200  
000210  
000240  
000255  
000310  
000320  
000330  
000340  
000350  
000415  
000417  
000420  
000430



OUTGRANTTAPETODISK

POLIN X333

PWSCM,CM60000,T700,MT1.  
CHARGE,PUAJ,1189043801  
FTN,OPT=2.  
VSN(TAPE1=CK1268)  
REQUEST,TAPE1,MT,HI,NORING,S.  
REQUEST,TAPE5,\*PF.  
LGO.

CATALOG,TAPE5,OUTGRANTFILE76,ID=PUAJ.

PROGRAM CITY(TAPE1,OUTPUT,TAPE3=OUTPUT,TAPE5)

INTEGER Z(64,2),COUNT1,COUNT2

WRITE(3,305)

305 FORMAT(\*1\*,T50,\*OUTGRANT TAPE TO DISK\*)

COUNT1=0

COUNT2=0

5 BUFFERIN (1,0) (Z(1,1),Z(64,2))

IF (UNIT(1)), 10,20,30

10 WRITE(5,1) ((Z(I,J),I=1,13),(Z(I,J),I=13,26),

\*(Z(I,J),I=26,39),(Z(I,J),I=39,52),(Z(I,J),I=52,64),

\*J=1,2)

1 FORMAT(12A10,A8/,R2,12A10,A6/,R4,12A10,A4/,

\*R6,12A10,A2/,R8,12A10/,12A10,A8/

\*R2,12A10,A6/,R4,12A10,A4/,R6,12A10,A2/R8,12A10)

COUNT1=COUNT1+1

COUNT2=COUNT2+1

GOTO 5

20 WRITE(3,300) COUNT1,COUNT2

GOTO 31

30 WRITE(3,301) COUNT1,COUNT2

GOTO 5

31 CONTINUE

STOP

000010  
000020  
000030  
000040  
000050  
000060  
000070  
000075  
000090  
000100  
000110  
000120  
000130  
000140  
000150  
000160  
000170  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000260  
000270  
000280  
000290  
000300  
000310  
000460

```

300  FORMAT(1X,*EOF ENCOUNTERED*,/,1X,I6,* RECORDS READ SUCCESSFULLY*,
      1/,1X,I6,* TOTAL RECORDS (INCLUDING ERRORS*)
301  FORMAT(1X,*PARITY ERROR RECORD*,I6,/,1X,I6,
      1* RECORDS HAVE BEEN READ SUCCESSFULLY*)
304  FORMAT(1X,*PROG TERMINATED*,/,1X,I6,* RECORDS READ SUCCESSFULLY*,
      1/,1X,I6,* TOTAL RECORDS (INCLUDING ERRORS*)
      END

```

```

000470
000480
000490
000500
000510
000520
000560

```

# CREATEOUTGRANTMASTER

PWSCM, CM75000, T300, P4.  
CHARGE, PUAJ, 1189043801.

FTN, OPT=2.

REQUEST(TAPE2, \*PF)

ATTACH, TAPE1, OUTGRANTFILE76, ID=PUAJ.

LGO.

CATALOG6, TAPE2, OUTGRANTMASTER76, ID=PUAJ, AC=1189043801.

PROGRAM INGO(TAPE2, TAPE3, INPUT, OUTPUT, TAPE1, TAPE5=INPUT,

\*TAPE6=OUTPUT)

INTEGER PARITY, ICOUNT, IOCONUS, BADCODE, ACODES(38),

\*ICODES(38)

DATA ICODES /4LOXJ0, 4LOXK0, 4LOXL0, 4LOXP0, 4LOXR0, 4LOXT0,

\*4LO7Y0,

\*4LOXU0, 4LOXW0, 4LOXW1, 4LOXZ0, 4LOX00, 4LO700, 4LO701, 4L2SK0,

\*4LOYA0,

\*4LOYB0, 4LOYC0, 4LOYD0, 4LOYE0, 4LOYF0, 4LOYJ0, 4L2SN0, 4LOY70,

\*4LOYL0, 4LOYL3, 4LOYM0, 4LOYM1, 4LOYM2, 4LOYN0, 4LOYQ0, 4LOYR0,

\*4LOYT0,

\*4LOYU0, 4LOYV0, 4LOYZ0, 4LOY10, 4LOX60/

DATA ACODES /2HA1, 2HA2, 2HA3, 2HA4, 2HC1, 2HC2, 2HD1,

\*2HE1,

\*2HE3, 2HZZ, 2HE4, 2HE5, 2HF2, 2HZZ

\*2HG1, 2HG2, 2HG3, 2HG4, 2HH1, 2HH2, 2HH3, 2HH4, 2HZZ, 2HZZ, 2HK3, 2HZZ,

\*2HK5, 2HZZ, 2HZZ, 2HK6, 2HL1, 2HL2,

\*2HM1, 2HM2, 2HM3, 2HM4, 2HM5, 2HF2/

ICOUNT=BADCODE=PARITY=0

IJK=0

CONTINUE

READ(1, 100) IDD1, IFY, ISC, IEFF, ITERM, ISTATE, INSTAL1, INSTAL2, INSTAL3

1, INSTAL4, IDD2

FORMAT(1X, R4, 31X, R2, 6X, R2, 1X, R6, R6, 16X, R6, 2X, 3A10, A3, 3X, R2)

IF(EOF(1)) 20, 10

9

100

000010  
000020  
000030  
000040  
000050  
000060  
000070  
000080  
000110  
000120  
000130  
000140  
000150  
000160  
000170  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000320  
000330  
000340  
000350  
000360  
000370



10	CONTINUE
	IJK=IJK+1
	IDD1=SHIFT(IDD1,36)
C	IF(IJK.GT.250) GOTO 20
	IF(IFV.EQ.2R76) GOTO 3
	GOTO 9
3	CONTINUE
	DO 12 I=1,38
	IF (ICODES(I).EQ. .IDD1) GOTO 13
12	CONTINUE

# SORTOUTGRANTMASTER

PWSCM,CM100000,T50,P4.  
CHARGE,PUAJ,1189043801,RS,I.  
FTN.

ATTACH,TAPE1,OUTGRANTMASTER76,ID=PUAJ.  
REQUEST(TAPE2,\*PF)  
LIBRARY(COBOL)  
REF,100000.  
LGO.

REDUCE.

CATALOG,TAPE2,OMS6,ID=PUAJ.

PROGRAM ONEFILE(TAPE1,TAPE2,OUTPUT,TAPE6=OUTPUT)

CALL SMSORT(43)

CALL SMFILE("SORT","CODED",1,"REWIND")

CALL SMFILE("OUTPUT","CODED",2,"REWIND")

CALL SMKEY(1,1,43,0,"DISPLAY","DISPLAY","A")

CALL SMEND

5 WRITE(6,100)

100 FORMAT(\*NORMAL COMPLETION\*)

STOP

END

000100  
000110  
000120  
000130  
000170  
000180  
000190  
000200  
000210  
000240  
000255  
000310  
000320  
000330  
000340  
000350  
000415  
000417  
000420  
000430

PAJ, CMB0000, T20, P4.  
 CHARGE, PUAJ, 1189043801, RS, I.  
 REQUEST, TAPE1, \*PF.  
 ATTACH, TAPE5, OUTGRANTMASTERSORTER, ID=PUAJ.  
 FTN.  
 LGO.

CATALOG, TAPE1, OMSYR, ID=PUAJ.

PROGRAM CRUNCH(TAPE1, TAPE5, OUTPUT, TAPE9=OUTPUT)

INTEGER M1, M2, M3, M4, M5, I1, I2, I3, I4, I5, COUNT, IDD, MDD, MNS, INS, IUNIT

READ(5, 202) M1, M2, M3, M4, M5, MDD, MNS

I1=M1

I2=M2

I3=M3

I4=M4

I5=M5

IDD=MDD

INS=MNS

IUNIT=1

COUNT=1

READ(5, 202) M1, M2, M3, M4, M5, MDD, MNS

IF (EOF(5).NF.0) GOTO 80

COUNT=COUNT+1

IF (M1-I1) 10, 20, 10

IF (M2-I2) 10, 30, 10

IF (M3-I3) 10, 40, 10

IF (M4-I4) 10, 50, 10

IF (M5-I5) 10, 60, 10

IUNIT=IUNIT+1

GOTO 5

WRITE(1, 240) I1, I2, I3, I4, I5, IDD, INS, IUNIT

I1=M1

I2=M2

I3=M3

I4=M4

000100  
 000110  
 000120  
 000130  
 000140  
 000150  
 000160  
 000170  
 000171  
 000172  
 000173  
 000174  
 000180  
 000190  
 000200  
 000210  
 000220  
 000230  
 000240  
 000250  
 000260  
 000270  
 000280  
 000290  
 000300  
 000310  
 000320



000330  
000340  
000350  
000360  
000370  
000380

```

I5=M5
IDD=MDD
INS=MNS
IUNIT=1
GOTO 5
202 FORMAT(4R9,R3,A2,R2)
240 FORMAT(4R9,R3,A2,R2,I5)
80  WRITE(9,250)COUNT
250  FORMAT(*EXECUTION COMPLETE;TOTAL RECORD READ=*,I10)
STOP
END
```

SORTCOMPLIANCELATLONG  
 SAME AS SORTOUTGRANTLATLONG

PWSCM,CM100000,T50,P4.  
 CHARGE,PUWS,1189056946,RS,I.  
 FTM.

ATTACH,TAPE1,OLATLONG,ID=PUWS.  
 REQUEST(TAPE2,\*PF)  
 LIBRARY(COBOL)  
 RFL,100000.  
 LGO.

REDUCE.

CATALOG,TAPE2,OLATLONGCARDSSORTED,ID=PUWS.  
 PROGRAM ONEFILE(TAPE1,TAPE2,OUTPUT,TAPE6=OUTPUT)

CALL SMSORT(48)  
 CALL SMFILE("SORT","CODED",1,"REWIND")  
 CALL SMFILE("OUTPUT","CODED",2,"REWIND")  
 CALL SMKPY(1,1,39,0,"DISPLAY","DISPLAY","A")  
 CALL SMEND

5 WRITE(6,100)  
 100 FORMAT(\*1NORMAL COMPLETION\*)  
 STOP  
 END

000100  
 000110  
 000120  
 000130  
 000170  
 000180  
 000190  
 000200  
 000210  
 000240  
 000255  
 000310  
 000320  
 000330  
 000340  
 000350  
 000415  
 000417  
 000420  
 000430

CRUNCHC

PAJ, CM6000, T20, P4.  
CHARGE, PUAJ, 1189043801, RS, I.  
FTN.  
ATTACH, TAPE5, CMSYR, ID=PUAJ.  
REQUEST, TAPE1, \*PF.  
LGO.

CATALOG, TAPE1, CMSYR, ID=PUAJ

PROGRAM, CRUNCH(TAPE1, TAPE5, OUTPUT, TAPE9=OUTPUT)

INTEGER M1, M2, M3, M4, M5, I1, I2, I3, I4, I5, COUNT, IDD, MDD, MNS, INS, IUNIT

READ(5, 202) M1, M2, M3, M4, M5, MDD, MNS

I1=M1

I2=M2

I3=M3

I4=M4

I5=M5

IDD=MDD

INS=MNS

IUNIT=1

COUNT=1

5 READ(5, 202) M1, M2, M3, M4, M5, MDD, MNS

IF (EOF(5).NE.0) GOTO 80

COUNT=COUNT+1

IF (M1-I1) 10, 20, 10

IF (M2-I2) 10, 30, 10

20 IF (M3-I3) 10, 40, 10

30 IF (M4-I4) 10, 50, 10

40 IF (M5-I5) 10, 60, 10

50 IUNIT=IUNIT+1

60 GOTO 5

10 WRITE(1, 240) I1, I2, I3, I4, I5, IDD, INS, IUNIT

I1=M1

I2=M2

I3=M3

000100  
000110  
000120  
000130  
000140  
000150  
000160  
000170  
000171  
000172  
000173  
000174  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000300  
000310



I4=M4  
I5=M5  
IDD=MDD  
INS=MNS  
IUNIT=1  
GOTO 5

FORMAT(4R9,R3,A2,R2)  
FORMAT(4P9,R3,A2,R2,I5)

202  
240  
80  
250

WRITE(9,250)COUNT  
FORMAT(\*EXECUTION COMPLETE;TOTAL RECORD READ=\*,I10)  
STOP  
END

000320  
000330  
000340  
000350  
000360  
000370  
000380  
000390  
000400  
000410  
000420  
000430

CREATERELOCATIONMASTER

PWSCM,CM60000,T200,MT1,P4.  
CHARGE,PUAJ,1189043801.  
FTN,OPT=2.

POLIN X333

VSN(TAPE1=CK1269)  
REQUEST,TAPE1,MT,HI,NORING,S.  
REQUEST,TAPE2,\*PF.  
LG0.

CATALOG,TAPE2,RELOCATIONMASTER,ID=PUAJ,AC=1189043801.

PROGRAM CITY(TAPE1,TAPE2,OUTPUT,TAPE6=OUTPUT)  
INTEGER Z(80,4),COUNTR,PARTITY,ICODES(33),ACODES(33),

1COUNTW,BADCODE

C COUNTR=NUMBER OF RECORDS READ

C COUNTW=NUMBER OF RECORDS WRITTEN

DATA ICODES /3LOXJ,3LOXK,3LOXL,3LOXP,3LOXR,3LOXT,  
\*3LO7Y,

\*3LOXU,3LOXM,3LOXZ,3LOX0,3LO70,3L2SK,

\*3LOYA,

\*3LOYB,3LOYC,3LOYD,3LOYE,3LOYF,3LOYJ,3L2SN,3LOY7,

\*3LOYL,3LOYM,3LOYN,3LOYQ,3LOYR,

\*3LOYT,

\*3LOYU,3LOYV,3LOYZ,3LOY1,3LOX6/

DATA ACODES /2HA1,2HA2,2HA3,2HA4,2HC1,2HC2,2HD1,

\*2HE1,

\*2HE3,2HE4,2HE5,2HF2,2HZZ

\*2HG2,2HG3,2HG4,2HH1,2HH2,2HH3,2HH4,2HZZ,2HK3,

\*2HK5,2HK6,2HL1,2HL2,

\*2HM1,2HM2,2HM3,2HM4,2HM5,2HF2/

COUNTW=BADCODE=PARITY=0

COUNTR=0

5 BUFFERIN (1,0) (Z(1,1),Z(80,4))

IF (UNIT(1)) 10,20,30

10 CONTINUE

000010  
000020  
000030  
000040  
000050  
000060  
000070  
000080  
000100  
000110  
000120  
000130  
000140  
000150  
000160  
000170  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000300  
000320  
000330  
000340

```

C      COUNTR=COUNTR+1
      IF(COUNTR.GT.250) GOTO 20
      DO 999 II=1,4
      IDD=Z(1,II).AND.MASK(18)
      DO 888 JJ=1,33
      IF(ICODES(JJ).EQ.IDD) GOTO 889
      888 CONTINUE
      C NO MATCH WRITE OUT THE CODE AND GET ANOTHER RECORD
      WRITE(6,100) IDD
      100 FORMAT(1X,* NO MATCH FOR THIS CODE *,A10)
      GOTO 999
      CONTINUE

```

```

000342
000344
000350
000360
000370
000380
000390
000400
000410
000420
000430
000440

```



# RELOCATIONMASTER

INCL, OM75000, T50, P4.  
 CHARGE, PUWS, 1189056946, RS, I.  
 FTN.

ATTACH, TAPE1, RELOCATIONMASTER, ID=PUWS.

REQUEST(TAPE2, \*PF)

LIBRARY(COBOL)

RFL, 75000.

LGO.

REDUCE.

CATALOG, TAPE2, RELOCATIONMASTERSORTED, ID=PUWS.

PROGRAM ONEFILE(TAPE1, TAPE2, OUTPUT, TAPE6=OUTPUT)

CALL SMSORT(61)

CALL SMFILE("SORT", "CODED", 1, "REWIND")

CALL SMFILE("OUTPUT", "CODED", 2, "REWIND")

CALL SMKEY(1, 1, 56, 0, "DISPLAY", "DISPLAY", "A")

CALL SMEND

WRITE(6, 100)

FORMAT(\*1NORMAL COMPLETION\*)

STOP

END

000100  
 000110  
 000120  
 000130  
 000170  
 000180  
 000190  
 000200  
 000210  
 000240  
 000255  
 000310  
 000320  
 000330  
 000340  
 000350  
 000415  
 000417  
 000420  
 000430

# SORTRELOCATIONLATLONG

PWSCM,CM75000,T50,P4.  
CHARGE,PUWS,1189056946 RS,I.  
FTN.

ATTACH,TAPE1,RLATLONG,RDS,ID=PUWS.

REQUEST(TAPE2,\*PF)

LIBRARY(COBOL)

RFL,75000.

LGO.

REDUCE.

CATALOG,TAPE2,RLATLONG,HARDSSORTED,ID=PUWS.

PROGRAM ONEFILE('TAPE1,TAPE2,OUTPUT,TAPE6=OUTPUT')

CALL SMSORT(68)

CALL SMFILE("SORT", "CODED",1,"REWIND")

CALL SMFILE("OUTPUT", "CODED",2,"REWIND")

CALL SMKEY(1,1,56,0,"DISPLAY","DISPLAY","A")

CALL SMEND

5 WRITE(6,100)

100 FORMAT(\*1NORMAL COMPLETION\*)

STOP

END

000100  
000110  
000120  
000130  
000170  
000180  
000190  
000200  
000210  
000240  
000255  
000310  
000320  
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000350  
000415  
000417  
000420  
000430

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APPENDIX E:

SAMPLES OF AMS5 AND ALLS FILES AND DATA  
FORMATS FOR EACH; OUTPUT OF MAPDATA,  
CALLED ANSM.

AMS5/BMS5

A1204487	30086360175000006000115500031807	LOWER ST FRAN BAS FLDWY
A1204487	3008636027 000004000006800001740	LOWER ST FRAN BAS FLDWY
A1204638	14027260175000033000063300392450	ST FRAN BIG CREEK ITEM-1
A1204646	10077460175000017000075600259800	ST FRAN CEN DONNICK FLDY
A1204651	29126960175000002000001400010275	ST FRAN DTCH 9-10 ITEM 2
A1204655	05047460175000119000060300396900	ST FRAN BAS DITCH 27
A1204655	05047460275000013000009700065900	ST FRAN BAS DITCH 27
A1204659	29126910175000010000004900039900	ST FRAN BAS BIG BAY IT 1
A1204668	29126960175000037000024200051250	ST FRAN BAS LOCUST CREEK
A1204675	19086660375000003000002800009028	ST FRAN TYRONZA R ITEM 2
A1226525	02087360175000005000005600030850	MISS RIV LEVEE BARNES RG
A1226527	2111676017500000000000000000050	MISS RIV LEVEE BIRDS PT
A1226527	21116760275000005000004000000250	MISS RIV LEVEE BIRDS PT
A1226639	30047460275000002000020200032825	ST FRAN DTCH 1 IT-2-3
A1226639	30047460175000030000110100148600	ST FRAN DTCH 1 IT-2-3
A1226672	05027360475000002000001200003100	ST FRAN BAS MINGO DITCH
A1226685	23107360275000002000007100008900	ST FRAN WAPOAPELLO IT 4
A1226685	23107360175000003000003000007115	ST FRAN WAPPAPELLO IT 4
A1243539	02087410175000001000004100008000	MISS RV-TRIB W TENN MIT



**Data Format for Acquisition Master File (AMSYR or BMSYR)**

Name of Field	Columns From	TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Division	1	1	1	A	L	
District	2	2	1	N	L	
Department	3	3	1	N	L	
State Code	4	5	2	N	L	Use State Code already in file.
Installation or Project No.	6	8	3	N	L	
Directive No.	9	13	5	N	L	
Directive Date/Date of Approval of REDM (Day,Month,Year)	14	19	6	N	R	
DOD Category	20	20	1	N	L	o
Method of Acquisition	21	22	2	N	R	
Fiscal Yr. in which Acq. Occur	23	24	2	N	R	
No. of Tracts Acquired	25	30	6	N	R	
No. of Acres Acquired	31	37	7	N	R	o
Amount of Accepted Option	38	45	8	N	R	o
Federal Agency from which Acquired	46	49	4	N	R	o
Installation Name	50	73	24	A/N	L	o
State Abbreviation	74	79	6	A	L	o

o Data not needed in Program MAPDATA or MAP

A=ALPHA, N=NUMERIC

\*\* L=LEFT, R=RIGHT

ALLS/BLLS

A1204487	3604 9021
A1204638	3604 9021
A1204646	3604 9021
A1204651	3604 9021
A1204655	3604 9021
A1204659	3604 9021
A1204668	3604 9021
A1204675	3604 9021
A1204677	3604 9021
A1218523	3700 8900
A1226525	3631 9016
A1226527	3631 9016
A1226639	3631 9016
A1226672	3630 9000
A1226685	3700 9025
A1243539	3610 8926
A2219600	2944 9036
A2244210	3323 9542
A2244210	3323 9542

Data Format for Acquisition Latitude, Longitude File (ALLS/BLLS)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Division	1	1	A	L	
District	2	2	N	L	
Department	3	3	N	L	
State Code	4	5	2	N	R Use State Code already in file
Installation or Project No.	6	8	3	N	R
Latitude Degree	14	15	2	N	R
Latitude Minute	16	17	2	N	R
Longitude Degree	18	20	3	N	R
Longitude Minute	21	22	2	N	R

\*A=ALPHA, N=NUMERIC

\*\*L=LEFT, R=RIGHT



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ANSM/BNISM

A1204467	30086360175000006000115500031807	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204467	3008636027 0000040000008800001740	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204467	14027260175000033000063300392450	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204467	10077460175000017000075600259800	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204467	2912696017500002000001400010275	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204467	05047460175000119000060300395900	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204467	05047460275000013000009700065900	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204467	2912691017500001000004900031900	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204467	29126960175000037000024200051250	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204467	19066660375000030000002800009028	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1226525	0208736017500005000005600030850	3631 9016 AHK A1 A3 M4	.09118	.09684	.02434	.03666	.04206	.02434
A1226527	2111676017500000000000000000050	3631 9016 AHK A1 A3 M4	.09118	.09684	.02434	.03666	.04206	.02434
A1226527	2111676027500002500004000000250	3631 9016 AHK A1 A3 M4	.09118	.09684	.02434	.03666	.04206	.02434
A1226539	3004746027500002000002000032825	3631 9016 AHK A1 A3 M4	.09118	.09684	.02434	.03666	.04206	.02434
A1226539	3004746017500003000011010145600	3631 9016 AHK A1 A3 M4	.09118	.09684	.02434	.03666	.04206	.02434
A1226572	050273602750000200001200003100	3630 90 0 AHK A1 A3 M4	.08817	.09342	.02386	.03705	.04452	.02386
A1226585	2310736027500002000007100008900	37 0 9025 AHF A3 A1 M4	.08896	.09311	.02637	.03299	.04732	.03299
A1226585	2310736017500003000003000007115	37 0 9025 AHF A3 A1 M4	.08896	.09311	.02637	.03299	.04732	.03299
A1243539	02087410175000001000004100008000	3610 8926 AKH A1 H3 A3	.08363	.08506	.02004	.03734	.04406	.02004

## DMS5

ABERDEEN	MARYLAND	21E1	0	1
ADDISON	ILLINOIS	14C2	1	0
AIKEN	S. CAROLINA	41K6	0	1
ALAMEDA	CALIFORNIA	5L2	0	1
ALAMOGORDO	NEW MEXICO	2M1	0	1
ALBUQUERQUE	NEW MEXICO	32M1	0	6
ALEXANDRIA	LOUISIANA	19M2	0	2
ALMA	NEBRASKA	28C1	0	1
ALTUS	OKLAHOMA	37M5	0	1

## Data Format for Disposal Master File (DMSYR)

Name of Field	Columns From TC		No. Cols.	Type of Data*	Justi- fy**	Remark
Location	1	15	15	A/N	L	
State	16	25	10	A	L	
State Code	26	27	2	N	R	
Division	28	28	1	A	L	
District	29	29	1	N	L	
GSA Unit	30	33	4	N	R	
OCE Unit	34	37	4	N	R	

\*A=ALPHA, N=NUMERIC  
 \*\*L=LEFT, R=RIGHT

## DISPOSAL-DLLS

ABBEVILLE	LOUISIANA	2958 92 8
ABERDEEN	MARYLAND	3931 7610
ABERDEEN	MISSISSIPPI	3349 8833
ABERDEEN	WASHINGTON	465912350
ABILENE	TEXAS	3228 9943
ADAK ISLAND	ALASKA	514517645
ADAMS	WISCONSIN	4357 8949
ADA	OKLAHOMA	3446 9641
ADDICKS	TEXAS	2947 9539
ADDISON	ILLINOIS	4156 8759
ADMIRALTY IS	ALASKA	573013430
ADRIAN	MICHIGAN	4154 84 2
ADVANCE	MISSOURI	37 6 8955
AGNEW	NEBRASKA	4110 9649
AIKEN	S. CAROLINA	3334 8143
AINSWORTH	NEBRASKA	4233 9952
AJO	ARIZONA	322211252
AKRON	ALABAMA	3253 8745
AKRON	OHIO	41 5 8131
ALAMEDA	CALIFORNIA	374612215

## Data Format for Disposal Latitude, Longitude File (DLLS)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Location	1 15	15	A/N	L	
State	16 25	10	A	L	
Latitude Degree	26 27	2	N	R	
Latitude Minute	28 29	2	N	R	
Longitude Degree	30 32	3	N	R	
Longitude Minute	33 34	2	N	R	

\*A=ALPHA, N=NUMERIC

\*\*L=LEFT, R=RIGHT



DNSM

ABERDEEN	3931	7610E1	0	121	EDR	E1	E5	E3	.03570	.08203	.11296	.00731	.01541	.03570	.00731	
ADDISON	4156	8759C2	1	014	FH0	F2	A3	H2	.00463	.06752	.10541	.00463	.06497	.07077	.10541	
ALAMEDA	37461	2215L2	0	1	5	LG0	L2	L1	.00232	.13564	.35705	.01771	.08581	.13564	.01771	
ALAMOGORDO	32541	0557M1	0	132	MCA	M1	M2	M5	.13390	.20105	.22149	.03943	.12686	.15502	.03943	
ALBUQUERQUE	35	510639M1	0	632	MCL	M1	M2	M5	.14787	.18140	.22606	.00000	.14135	.15336	.00000	
ALEXANDRIA	3118	9227M2	0	219	AMK	A4	A2	M3	.02959	.06959	.12613	.02959	.04269	.04972	.07609	
ALMA	4323	8429C1	0	128	FHF	F2	H4	H1	.04818	.07476	.14350	.04818	.07755	.09073	.15202	
ALTUS	3438	9920M5	0	137	MCA	M2	M5	M4	.04876	.12469	.12924	.04418	.05548	.10117	.06548	
AMARILLO	35131	0150M2	1	044	MCA	M1	M2	M5	.08408	.13247	.16643	.06877	.07846	.08548	.07846	
ANNISTON	3339	8550K5	0	53	1	KAH	H3	K5	A1	.07731	.09690	.04598	.06126	.06601	.06126	
MARYLAND																
ILLINOIS																
CALIFORNIA																
NEW MEXICO																
NEW MEXICO																
LOUISIANA																
NEBRASKA																
OKLAHOMA																
TEXAS																
ALABAMA																

IMS5

ABERDEEN	37	K6N	1
ABILENE	48	M2N	1
ABILENE	48	M2R	1
ADA	40	M5N	1
AFTON	40	M5N	1
AGAWAN	25	E3N	1
AKRON	39	E1N	1
AKRON	39	E1R	3
ALAMANCE COUNTY	37	K6N	1
ALAMEDA	06	L2N	2
ALAMOSA	08	C2N	1
ALAMOSA	08	C2R	1
ALBANY	13	K6N	1
ALBANY	36	E3N	8
ALBANY	41	G3N	1
ALBUQUERQUE	35	M1N	5
ALEXANDRIA	51	E1N	18
ALICEVILLE	01	K5N	1
ALICE	48	M3N	2

Data Format for Inleasig Master File (IMSYR)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Location	1 15	15	A/N	L	
State Code	16 17	2	N	R	
BLANKS	18 26	9	A		BLANKS shall be filled in the field
Division	27 27	1	A	L	
District	28 28	1	N	R	
TYPE	29 29	1	A	L	R or N shall be indicated
Number of unit	30 34	5	N	R	

\*A=ALPHA, N=NUMERIC

\*\*L=LEFT, R=RIGHT

UMS5

ABBEVILLE	01	K5	4
ABBEVILLE	22	A2	2
ABERDEEN	37	K6	1
ABERDEEN	46	C2	2
ABERDEEN	53	G3	2
ABILENE	48	M2	4
ACEY	53	G3	1
ADAMS CO	08	C2	1
ADA	40	M5	2
ADDISON	17	C2	1
AFFTON	29	C1	1
AFTON	40	M5	1
AGAWAN	25	E3	1
AGUADILLA ST PR	RQ	ZZ	1
AGUADILLA	RQ	ZZ	42
AIKEN	45	K6	2
AJO	04	L1	1
AKRON	39	E1	8
ALAMANCE COUNTY	37	K6	1

Data Format for Utilization Master File (UMSYR)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Location	1 15	15	A/N	L	
State Code	16 17	2	N	R	
Blanks	18 26	9	A	L	Blanks shall be filled in the field
Division	27 27	1	A	L	
District	28 28	1	N	R	
Number of unit	29 33	5	N	R	

\*A=ALPHA, N=NUMERIC  
\*\*L=LEFT, R=RIGHT



# ILLS/ULLS

ABBEVILLE	222958 9208
ABERDEEN	373508 7925
ABERDEEN	464528 9829
ABERDEEN	53465912350
ABILENE	483228 9943
ACEY	53
ADAMS CO	08394010450
ADA	403446 9641
ADDISON	174156 8759
ADRIAN	264154 8402
AFFTON	293833 9020
AFTON	403641 9458
AGANA GUAM	GQ
AGUADILLA ST PR	RQ
AGUADILLA	RQ
AIKEN	453334 8143
AJO	04322211252
AKRON	394105 8131
ALAMANCE COUNTY	373610 7929

## Data Format for Inleasing/Utilization Latitude, Longitude File (ILLS/ULLS)

Name of Field	Columns From TO	No. Cols.	Type of Data*	Justi- fy**	Remark
Location	1 15	15	A/N	L	
State Code	16 17	2	N	R	See codes of states already in file
Latitude Degree	18 19	2	N	R	
Latitude Minute	20 21	2	N	R	
Longitude Degree	22 24	3	N	R	
Longitude Minute	25 26	2	N	R	

\*A=ALPHA, N=NUMERIC  
\*\*L=LEFT, R=RIGHT

# INSM

ABERDEEN	3735 8 7925K6N	1	KHE E4 K6 H1	.07545	.09912	.12265	.05343	.05858	.07128	.05858
ABILENE	483228 9943M2N	1	MAC M2 M5 M3	.04298	.13014	.16227	.03587	.08466	.09206	.03587
ABILENE	483228 9943M2R	1	MAC M2 M5 M3	.04298	.13014	.16227	.03587	.08466	.09206	.03587
ADA	403446 9641M5N	1	MAC M5 M2 M4	.03467	.09429	.11410	.02675	.03632	.06309	.02675
AFTON	403641 9458M5N	1	MCA M5 C1 M4	.07305	.08154	.09573	.01610	.04251	.05083	.01610
AKRON	3941 5 8131E1N	1	HFE H4 H1 E1	.05293	.08117	.09934	.02285	.04820	.07248	.07248
AKRON	3941 5 8131E1R	3	HFE H4 H1 E1	.05293	.08117	.09934	.02285	.04820	.07248	.07248
ALAMANCE COUNTY	373610 7929K6N	1	KHE E4 H1 E1	.08179	.08635	.10916	.04645	.05591	.06727	.07499

# UNSM

ABBEVILLE	222958 92 8A2	2	AMK A2 M3 A4	.04559	.08535	.13245	.03125	.04209	.04559	.03125
ABERDEEN	3735 8 7925K6	1	KHE E4 K6 H1	.07545	.09912	.12265	.05343	.05858	.07128	.05858
ABERDEEN	464528 9829C2	2	CFH C2 C1 F2	.07943	.15040	.21138	.07943	.12196	.15040	.07943
ABERDEEN	53465912350G3	2	GLC G3 G2 G4	.02926	.16160	.36023	.02076	.02926	.06794	.02076
ABILENE	483228 9943M2	4	MAC M2 M5 M3	.04298	.13014	.16227	.03487	.08466	.09206	.03587
ADAMS CO	08394010455C2	1	CMF M1 C2 M5	.12142	.16550	.23128	.08352	.12142	.13807	.12142
ADA	403446 9641M5	2	MAC M5 M2 M4	.03467	.09429	.11410	.02675	.03632	.06309	.02675
ADDISON	174156 8759C2	1	FHC F2 A3 H2	.00463	.06752	.10541	.00463	.06497	.07077	.10541
AFTON	293833 9020C1	1	FHC A3 C1 A1	.06840	.07966	.08977	.00216	.05857	.05976	.05857
AFTON	403641 9458M5	1	MCA M5 C1 M4	.07305	.08154	.09573	.01610	.04251	.05083	.01610
AIKEN	453334 8143K6	2	KHA K6 K3 H1	.03887	.10428	.13586	.02742	.05644	.08528	.02742
AJO	04322211252L1	1	LHG L1 M1 L2	.16582	.23594	.26472	.08400	.10191	.16348	.08400
AKRON	3941 5 8131E1	8	HFE H4 H1 E1	.05293	.08117	.09934	.02285	.04820	.07248	.07248
ALAMANCE COUNTY	373610 7929K6	1	KHE E4 H1 E1	.08179	.08635	.10916	.04645	.05591	.06726	.07499

AD-A057 146

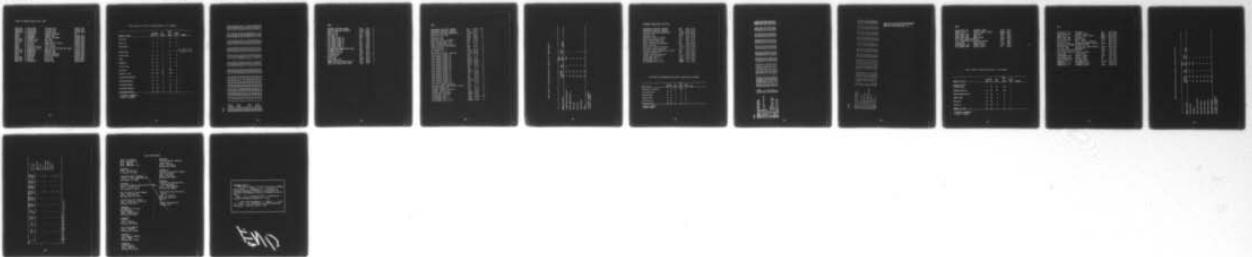
CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAI--ETC F/G 5/1  
REAL ESTATE MODEL OF ACTIVITY PERFORMANCE (REMAP) USER'S MANUAL--ETC(U)  
JUL 78 C P ALTHEIDE  
CERL-TR-P-89

UNCLASSIFIED

NL

3 of 3

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PROJECT PLANNING MASTER FILE--PMS5

M5237220	R 175CLAYTON	CLAYTON LAKE	OK3435 9521
M5237220	S 175CLAYTON	CLAYTON LAKE	OK3435 9521
M5237220	O 375CLAYTON	CLAYTON LAKE	OK3435 9521
M5237	R 175COLGATE	PARKER RESERVOIR	OK
M5237	R 175DURANT	ALBANY LAKE	OK3360 9623
M5237	R 175DURANT	CENTRAL OKLAHOMA	OK3360 9623
M5237424	R 175PONCA CITY	KAW LAKE	OK3642 9705
M5237429	O 175SALLISAW	KERR LAKE	OK3528 9447
M5237	R 175TULSA	MINGO AND JOE CREEK	OK3610 9554
M5137	R 175TULSA	CORPS LEASE	OK3610 9554
M5244	R 175WICHITA FALLS	LAKE WICHITA	TX3354 9830
M5244	S 175WICHITA FALLS	LAKE WICHITA AND HOLIDAY CREEK	TX3354 9830
M5237750	R 175WAURICA	WAURIKA LAKE	OK3410 9760
M5237750	S 275WAURICA	WAURIKA LAKE	OK3410 9760
M5237	R 175WISTER	WISTER RESERVOIR	OK3458 9443
M5237	S 175WISTER	WISTER RESERVOIR	OK3458 9443
M5537050	R 175ALTUS	ALTUS AFB	OK3438 9920
M5537050	S 175ALTUS	ALTUS AFB	OK3438 9920
M5237577	S 175HARDESTY	OPTIMA LAKE	OK363710112

# Data Format for Project Planning Master File (PMSYR)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Division	1 1	1	A	L	
District	2 2	1	N	L	
Department	3 3	1	N	L	
State Code	4 5	2	N	R	Use state code already in file
Project No.	6 8	3	N	R	
Type	12 12	1	A	L	
Quantity	13 14	2	N	R	
Fiscal Year	15 16	2	N	R	
Location	17 35	19	A/N	L	
Project Title	36 69	34	A/N	L	
State Abbreviation	70 71	2	A	L	
Latitude Degree	72 73	2	N	R	
Latitude Minute	74 75	2	N	R	
Longitude Degree	76 78	3	N	R	
Longitude Minute	79 80	2	N	R	

\*A=ALPHA, N=NUMERIC

\*\*L=LEFT, R=RIGHT

PNSM

M5237220	R	175	3435	9521	MAC	M5	M2	M4	.03795	.07581	.11730	.02879	.04273	.04412	.02879
M5237220	S	175	3435	9521	MAC	M5	M2	M4	.03795	.07581	.11730	.02879	.04273	.04412	.02879
M5237220	O	375	3435	9521	MAC	M5	M2	M4	.03795	.07581	.11730	.02879	.04273	.04412	.02879
M5237	R	175	3360	9623	MAC	M2	M5	M4	.02215	.08534	.12722	.02558	.03840	.06049	.03840
M5237	R	175	3360	9623	MAC	M2	M5	M4	.02215	.08435	.12722	.02558	.03840	.06049	.03840
M5237424	R	175	3642	97 5	MCA	M5	C1	M2	.06847	.08129	.11705	.01884	.05422	.06901	.01884
M5237429	O	175	3528	9447	MAC	M5	M4	M2	.05528	.07841	.10291	.02016	.03782	.05975	.02016
M5237	R	175	3610	9554	MCA	M5	C1	M4	.06050	.08932	.09833	.00023	.05433	.05705	.00023
M5137	R	175	3610	9554	MCA	M5	C1	M4	.06050	.08932	.09833	.00023	.05433	.05705	.00023
M5244	R	175	3354	9830	MAC	M2	M5	M4	.03134	.11454	.13334	.02663	.05411	.09081	.05411
M5244	S	175	3354	9630	MAC	M2	M5	M4	.03134	.11454	.13334	.02663	.05411	.09081	.05411
M5237750	R	175	3410	9760	MAC	M2	M5	M4	.02966	.10857	.12718	.02674	.04584	.08288	.04584
M5237750	S	275	3410	9760	MAC	M2	M5	M4	.02966	.10857	.12718	.02674	.04584	.08288	.04584
M5237	R	175	3458	9443	MAC	M5	M4	M2	.04876	.07201	.11168	.02700	.03505	.05383	.02700
M5237	S	175	3458	9443	MAC	M5	M4	M2	.04876	.07201	.11168	.02700	.03505	.05383	.02700
M5537050	R	175	3438	9920	MCA	M2	M5	M4	.04876	.12469	.12924	.04418	.05548	.10117	.05548
M5537050	S	175	3438	9920	MCA	M2	M5	M4	.04876	.12469	.12924	.04418	.05548	.10117	.05548
M5237577	S	175	3637	10112	MCA	M5	M1	M2	.09180	.10758	.16592	.07463	.08160	.08766	.07463
M5244	R	275	3340	9533	MAC	M2	M5	M4	.02408	.07206	.13309	.03015	.04395	.05080	.04395



OMS5

ABERDEEN PROVING GROUND	MLD	E124	5
ABIQUIU DAM AND RESERVOIR	N MEX	M135	1
ADA CITY OF	OKLA	M540	1
ADDICKS DAM	TEX	M348	6
AF PLANT #3	OKLA	M540	1
AIR FORCE PLANT 13	KAN	C120	2
AIR FORCE PLANT 38	N-Y	E336	1
AIR FORCE PLANT 42	CAL	L106	1
AIR FORCE PLANT 44	ARZ	L104	1
AIR FORCE PLANT 4	TEX	M248	1
AIR FORCE PLANT 6	GEO	K613	1
ALABAMA ARMY AMMUNITION PLANT	ALA	K501	5
ALIAMANU MIL RES	HAW	Z715	1
ALIGATOR CATFISH	MISS	A428	1
ALLATOONA RES	GEO	K513	17
ALMOND LAKE	N-Y	E136	1
ALTUS AFB	OKLA	M540	1
ALUM CREEK LAKE	OHIO	H139	1
AMARILLO NATL GUARD FACILITY	TEX	M248	2
AMES LAKE SKUNK RIVER IOWA	IOWA	E219	1

CMS5

ABERDEEN PROVING GROUND	MLD	E124	121
ABERDEEN PROVING GROUND	VIR	E151	1
ABIQUIU DAM AND RESERVOIR	N MEX	M135	10
ADAIR AF STATION	ORE	G341	5
ADA CITY OF	OKLA	M540	1
ADDICKS DAM	TEX	M348	71
ADDISON FLOOD CONTROL	N-Y	E136	1
AERO CHART-INFO CTR	KAN	C120	1
AERO CHART-INFO CTR	MO	C129	4
AFES STATION MONTGOMERY	ALA	K5 1	1
AFRC WICHITA	KAN	C120	2
AF PLANT NO 14	CAL	L1 6	9
AF PLANT #3	OKLA	M540	4
AIKEN AIR FORCE STATION	S CAR	K645	2
AIR FORCE PLANT 13	KAN	C120	7
AIR FORCE PLANT 19	CAL	L1 6	2
AIR FORCE PLANT 27	OHIO	E139	2
AIR FORCE PLANT 28	MASS	E325	1
AIR FORCE PLANT 29	MASS	E325	2
AIR FORCE PLANT 36	OHIO	E139	5
AIR FORCE PLANT 38	N-Y	E336	4
AIR FORCE PLANT 42	CAL	L1 6	20
AIR FORCE PLANT 44	ARZ	L1 4	5
AIR FORCE PLANT 47	OHIO	E139	3
AIR FORCE PLANT 4	TEX	M248	17
AIR FORCE PLANT 59	N-Y	E336	2
AIR FORCE PLANT 65	MO	C129	10
AIR FORCE PLANT 6	GEO	K613	2
AIR FORCE PLANT 83	N MEX	M135	2
AIR FORCE PLANT 84	MO	C129	7
AJO AIR FORCE STATION	ARZ	L1 4	1
ALABAMA ARMY AMMUNITION PLANT	ALA	K5 1	19
ALAMO RESERVOIR	ARZ	L1 4	3
ALBANY COUNTY AIRPORT	N J	E334	1
ALBENI FALLS DAM	IDA	G316	12
ALCOA ANG STATION	TENN	K547	1
ALIGATOR CATFISH	MISS	A428	1
ALLATOONA RES	GEO	K513	196
ALLEGHENY RIV LD 2	PENN	H442	1
ALLEGHENY RIV L-D 4	PENN	H442	3

Data Format for Outgrant/Compliance Master File (OMSYR/CMSYR)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Installation/Location	1 33	33	A/N	L	
State Abbreviation	34 39	6	A	L	
Division	40 40	1	A	L	
District	41 41	1	N	L	
State Code	42 43	2	N	R	
Units	44 48	5	N	R	

\*A=ALPHA, N=NUMERIC

\*\*L=LEFT, R=RIGHT



# OUTGRANT/COMPLIANCE--OLLS/CLLS

ABERDEEN PROVING GROUND	MLD	3930	7615
ABERDEEN PROVING GROUND	VIR	3930	7615
ABIQUIU DAM AND RESERVOIR	N MEX	36161	0627
ADA CITY OF	OKLA	3440	9638
ADDICKS DAM	TEX	2947	9536
ADDISON FLOOD CONTROL	N-Y	4205	7715
AERO CHART-INFO CTR	KAN	3837	9012
AERO CHART-INFO CTR	MO	3837	9012
AFES STATION MONTGOMERY	ALA	3223	8619
AFRC WICHITA	KAN	3342	9720
AIDEN AIR FORCE STATION	S CAR	3500	8140
AJO AIR FORCE STATION	ARZ	32221	1252
ALABAMA ARMY AMMUNITION PLANT	ALA	3316	8621
ALAMO RESERVOIR	ARZ	34121	1329
ALBANY COUNTY AIRPORT	N J	4239	7345
ALCOA ANG STATION	TENN	3548	8359
ALLATOONA RES	GEO	3410	8444
ALLEGHENY RIV LD 2	PENN	4151	7857
ALLEGHENY RIV L-D 4	PENN	4151	7857

Data Format for Outgrant/Compliance Latitude, Longitude File (OLLS/CLLS)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Installation or Location	1 33	33	A/N	L	
State Abbreviation	34 39	6	A	L	
Latitude Degree	40 41	2	N	R	
Latitude Minute	42 43	2	N	R	
Longitude Degree	44 46	3	N	R	
Longitude Minute	47 48	2	N	R	

\*A=ALPHA, N=NUMERIC  
\*\*L=LEFT, R=RIGHT

# ONSM

ABERDEEN PROVING GROUND	3930 7615E124	5 EDH E1 E5 E3	.03678	.08308	.11183	.00623	.01653	.03678	.00623
ARIQUITU DAM AND RESERVOIR	361610627M135	1 MCL M1 M2 M5	.15118	.16661	.22377	.02085	.14512	.14826	.02085
ADA CITY OF	3440 9638H540	1 MAC M5 M2 M4	.03298	.09291	.11579	.02809	.03482	.06242	.02809
ADDICKS DAM	2947 9536M348	6 MAK M3 M2 A4	.05541	.08353	.18013	.01479	.05765	.08353	.01479
ALABAMA ARMY AMMUNITION PLANT	3316 8621K501	5 KAH H3 K5 A1	.02984	.06839	.10503	.05099	.05163	.06256	.05163
ALATOONA RES	3410 8444K513	17 KHA H3 K6 H2	.00886	.08616	.09517	.04554	.06435	.07274	.07799
ALMOND LAKE	4220 7749E136	1 FDH H4 E5 E1	.05729	.08489	.10502	.04392	.05425	.05554	.05554
ALTUS AFB	3438 9920H540	1 MCA M2 M5 M4	.04876	.12469	.12924	.04418	.05548	.10117	.05548
ALUM CREEK LAKE	4010 83 OH139	1 HFK H1 H4 H2	.02761	.06795	.11364	.03143	.03998	.05018	.03143
AMARILLO NATL GUARD FACILITY	351310150M248	2 MCA M1 M2 M5	.08408	.13247	.16643	.06877	.07846	.08548	.07846
AWES LAKE SKUNK RIVER IOWA	4130 9150F219	1 CFH A3 C2 F2	.05490	.05514	.10597	.05485	.05490	.05514	.05514
ARKABUTLA RES	3446 90 84428	91 AKM A1 M4 A4	.04357	.08481	.10293	.00651	.03083	.04357	.04357
ARK R HENSLEY BAR CUT-OFF	34 2 9110M405	1 AMK M4 A1 A4	.02967	.08515	.09838	.02037	.02502	.02967	.02037
ARMY TOPOGRAPHIC STATION	3858 7710E124	1 EDH E1 E5 F4	.05228	.09857	.09965	.00927	.03195	.03889	.00927
MLD									
N MEX									
OKLA									
TEX									
ALA									
GEO									
N-Y									
OKLA									
OHIO									
TEX									
IOWA									
MISS									
ARK									
MLD									

[illegible]

200



RMS5

ALUM CREEK LAKE	DELAWARE COUNTY	OHIO	39H11
ANDREWS AFB	PRINCE GEORGES COUNTY	MARYLA	24E11
APPLE GATE LAKE	JACKSON CO	OREG	41G21
BEAR CREEK LAKE	KNOX CO	COLO	08C21
BEECH FORK LAKE	WAYNE COUNTY	W-VA	54H11
BIG STONE LAKE-WHETSODESSA		MINN	27F21
BIG THICKET NATL PK	JEFFERSON COUNTY	TEX	48M21
BIRCH LAKE	OSAGE COUNTY	OKLA	40M51
BLOOMINGTON LAKE	MINERAL COUNTY	W-VA	54E11
BLUE MARSH LAKE	BERKES COUNTY	PA	42E51

Data Format for Relocation Master File (RMSYR)

Name of Field	Columns From TC		No. Cols.	Type of Data*	Justi- fy**	Remark
Project Title/ Installation	1	20	20	A/N	L	
County/Location	21	50	30	A/N	L	
State Abbreviation	51	56	6	A	L	
State Code	57	58	2	N	L	
Division	59	59	1	A	L	
District	60	60	1	N	L	
Number of Unit	61	61	1	N	L	

\*A=ALPHA, N=NUMERIC  
\*\*L=LEFT, R=RIGHT

# RLLS

ALICEVILLE L-D	PICKENS CO	ALA	3308 8809
ALUM CREEK LAKE	DELAWARE COUNTY	OHIO	4010 8300
ANDREWS AFB	PRINCE GEORGES COUNTY	MARYLA	3844 7656
APPLE GATE LAKE	JACKSON CO	OREG	421612310
BEECH FORK LAKE	WAYNE COUNTY	W-VA	3813 8227
BELTON LAKE	BELL + CORYELL COUNTIES	TX	3107 9729
BELTZVILLE LAKE	CARBON AND MONROE COUNTIES	PENN	4045 7530
BERWICK RATS FLDWALL	ST MARYS PARISH	LA	2941 9112
BIG BEND DAM	BUFFALO AND LYMAN COUNTIES	S-DAK	4407 9923
BIG HILL LAKE	MONTGOMERY CO	KAN	3720 9541
BIG STONE LAKE-WHETS	ODESSA	MINN	4518 9627
BIG THICKET NATL PK	JEFFERSON COUNTY	TEX	2940 9415
BIRCH LAKE	OSAGE COUNTY	OKLA	3634 9610
BLOOMINGTON LAKE	MINERAL COUNTY	W-VA	3939 7904
BLUE MARSH LAKE	BERKES COUNTY	PA	4020 7556
BLUE SPRINGS LAKE	JACKSON COUNTY	MO	3901 9342
BONNEVILLE L-D	MULNOMAH COUNTY	ALASKA	453912156
BONNEVILLE L-D	MULTNOMAH COUNTY	ORE	453912156
BONNEVILLE L-D	SKAMANIA COUNTY	WASH	453912156

Data Format for Relocation Latitude, Longitude File (RLLS)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Installation	1 20	20	A/N	L	
Location	21 50	30	A/N	L	
State Abbreviation	51 56	6	A	L	
Latitude Degree	60 61	2	N	R	
Latitude Minute	62 63	2	N	R	
Longitude Degree	64 66	3	N	R	
Longitude Minute	67 68	2	N	R	

\*A=ALPHA, N=NUMERIC

\*\*L=LEFT, R=RIGHT



RNSM

ANDREWS AFB	PRINCE GEORGES COUNTY	MARYLA3844 765624E11 EDH E1 E5 E4	.05242	.09881	.10315	.01052	.03193	.03407
.01052								
APPLE GATE LAKE	JACKSON CO	OREG 42161231041G21 GLC G2 L2 G4	.05743	.07889	.35231	.05743	.06806	.08974
.05743								
BEECH FORK LAKE	WAYNE COUNTY	W-VA 3813 822754H11 HKF H1 H2 H4	.03211	.08260	.09426	.00349	.04547	.05075
.00349								
BIG STONE LAKE-WHETSODESSA		MINN 4518 962727F21 CFH C2 C1 F2	.07032	.12630	.18814	.07032	.11086	.12630
.12630								
BIG THICKET NATL PK JEFFERSON COUNTY		TEX 2940 941548M21 MAK M3 A2 A4	.06652	.06876	.16281	.01053	.06356	.06876
.07048								
BIRCH LAKE	OSAGE COUNTY	OKLA 3634 961040M51 MCA M5 C1 M4	.06669	.08235	.10578	.00782	.04931	.06354
.00782								
BIRCH LAKE	OSAGE COUNTY	OKLA 3634 961040M51 MCA M5 C1 M4	.06669	.08235	.10578	.00782	.04931	.06354
.00782								
BIRCH LAKE	OSAGE COUNTY	OKLA 3634 961040M51 MCA M5 C1 M4	.06669	.08235	.10578	.00782	.04931	.06354
.00782								

**APPENDIX F:**

**NECESSARY PROGRAM NAMES**

FILE	Parameter File X1	Lat/Long File XLS	Master File for '75 XMS5	Master File for '76 XMS6	MAPDATA Program Type 1 CV1,CV2 XMD1	MAPDATA Program Type 2 CV1,CV2 XMD2	MAPDATA Program Type 3 CV1,CV2 XMD3	MAP Program Type 1 CV1,CV2 XMAP1	MAP Program Type 2 CV1,CV2 XMAP2	MAP Program Type 3 CV1,CV2 XMAP3	Other Files EXODF, TEND0
A	x	x	x	x	x	x	x	x	x	x	CRUCH1, (CRUNCHU, CRUCHC)
B					x	x	x	x	x	x	REP1, (REP2)
C	x	x	x	x	x	x	(x)	x	x	(x)	PROFILE
D	x	x	x	x	x	x	(x)	x	x	(x)	CREATADD, VALUEDL
I	x	x	x	x	x	x	x	x	x	x	REMAP1, (REMAP2)
O	x	x	x	x	x	x	(x)	x	x	(x)	(REALESTATE3)
P	x		x	x	x	x	x	x	x	(x)	(ATTACHPF)
R	x	x	x	x	x	x	(x)	x	x	(x)	
U	x		x	x	x	x	(x)	x	x	(x)	

x Permanent file cataloged under PUAJ and PUMS.

(x) Permanent file cataloged under PUMS but could be cataloged under PUAJ



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1978.

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1. Real estate management. 2. REMAP. I. Title.  
II. Series: U.S. Construction Engineering Research  
Laboratory - Technical report ; P-89.

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